Flatness and defect of non-linear systems: introductory

International Journal of Control 61, 1327-1361

DOI: 10.1080/00207179508921959

Citation Report

#	Article	IF	CITATIONS
1	Design of oscillatory control systems. , 0, , .		0
2	Pseudospectral methods for optimal motion planning of differentially flat systems. , 0, , .		15
3	A new approach to dynamic feedback linearization control of an induction motor. , 0, , .		10
4	Flatness of heavy chain systems. , 0, , .		11
5	Control of robots with elastic joints based on automatic generation of inverse dynamics models. , 0, ,		15
6	On Goursat normal forms, prolongations, and control systems. , 0, , .		7
7	Feedback linearization of a class of nonlinear descriptor systems. , 0, , .		15
8	A different look at output tracking: control of a VTOL aircraft. , 0, , .		56
9	Nonlinear control and Lie-Backlund transformations: towards a new differential geometric standpoint. , 0, , .		23
10	A multi-steering trailer system: Conversion into chained form using dynamic feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1994, 27, 159-164.	0.4	14
11	Some Remarks on Quasi-Static Feedback of Generalized States. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1994, 27, 51-56.	0.4	3
12	Index and Decomposition of Nonlinear Implicit Differential Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 37-42.	0.4	12
13	Nonlinear Controllers for Induction Motors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 521-532.	0.4	11
14	A Procedure Towards Linearizing Dynamic Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 281-286.	0.4	1
15	The Multi-Steering N-Trailer System: A Case Study of Goursat Normal Forms and Prolongations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 517-522.	0.4	1
16	Feedback classification of nonlinear control systems on 3-manifolds. Mathematics of Control, Signals, and Systems, 1995, 8, 299-333.	1.4	22
17	A bound on the number of integrators needed to linearize a control system. , 0, , .		2
18	Implicit differential equations and Lie-Backlund mappings. , 0, , .		2

#	Article	IF	Citations
19	Any (controllable) driftless system with m inputs and m+2 states is flat., 0,,.		10
20	Developments in nonholonomic control problems. IEEE Control Systems, 1995, 15, 20-36.	1.0	1,064
21	A multisteering trailer system: conversion into chained form using dynamic feedback. IEEE Transactions on Automation Science and Engineering, 1995, 11, 807-818.	2.4	77
22	Controllability and motion planning for linear delay systems with an application to a flexible rod. , 0,		25
23	Linearization of Discrete-Time Systems. SIAM Journal on Control and Optimization, 1996, 34, 1999-2023.	1.1	174
24	A nonlinear approach to the control of magnetic bearings. IEEE Transactions on Control Systems Technology, 1996, 4, 524-544.	3.2	126
25	Nonholonomic motion planning: a polynomial fitting approach. , 0, , .		9
26	A lie-bÃæklund approach to dynamic feedback equivalence and flatness. , 1996, , 245-268.		9
27	A Toolbox for Symbolic Nonlinear Feedback Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2681-2686.	0.4	9
28	Dynamic Sliding Mode Control of Non-Minimum Phase Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2651-2656.	0.4	0
29	Controlling a Chemical Reactor Model Using its Flatness. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2780-2785.	0.4	5
30	A Discrete-Time Decoupling Scheme for a Differentially Cross-Coupled System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 1281-1286.	0.4	4
31	Flatness and Sampling Control of Induction Motors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2786-2791.	0.4	27
32	Control of Magnetic Bearings: Flatness with Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2798-2803.	0.4	4
33	A different look at output tracking: control of a vtol aircraft. Automatica, 1996, 32, 101-107.	3.0	293
34	Flatness based control of a nonlinear chemical reactor model. Automatica, 1996, 32, 1433-1439.	3.0	128
35	Nonlinear controllers for an induction motor. Control Engineering Practice, 1996, 4, 977-990.	3.2	42
36	A bound on the number of integrators needed to linearize a control system. Systems and Control Letters, 1996, 29, 43-50.	1.3	27

#	Article	IF	Citations
37	Adaptive control of nonholonomic mechanical systems. , 0, , .		31
38	Configuration flatness of Lagrangian systems underactuated by one control. , 0, , .		14
39	A canonical form for a class of noncontrollable nonlinear systems. , 0, , .		0
40	Nonlinear control of Chua's circuit. , 0, , .		3
41	Extensions of differential flat fields and Liouvillian systems. , 0, , .		23
42	Robust control for induction motors based on differential algebra. , 0, , .		0
43	Computer algebra methods for feedback linearization using an exterior calculus framework. , 1997, , .		1
44	Flatness and passivity from a bond graph. , 0, , .		2
45	Observer-based speed tracking control of a permanent magnet synchronous motor. , 0, , .		1
46	Flatness and Induction Motors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 451-454.	0.4	4
47	Nonlinear Adaptive Control for Turning Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 167-172.	0.4	2
48	Control of Nonholonomic Robotic Systems Using Reduction and Adaptation ‡. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 683-688.	0.4	0
49	Theory and Practice in the Motion Planning and Control of a Flexible Robot Arm Using Mikusiński Operators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 267-273.	0.4	32
50	Global Robust Disturbance Attenuation for Uncertain Minimum Phase Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 315-320.	0.4	1
51	Robust H/sub $\hat{a}^*\hat{z}/\hat{z}$ control for a class of cascaded nonlinear systems. IEEE Transactions on Automatic Control, 1997, 42, 1465-1469.	3.6	26
52	Aggressive flight maneuvers. , 0, , .		52
53	Control of uncertain nonholonomic mechanical systems using reduction and adaptation. , 1997, , .		1
54	Control of differentially flat mechanical systems in the presence of uncertainty. , 1997, , .		4

#	Article	IF	Citations
55	Title is missing!., 1997,,.		1
56	Tracking law for a new entry guidance concept. , 1997, , .		3
57	Outer flatness: Trajectory generation for a model helicopter. , 1997, , .		14
58	A toy more difficult to control than the real thing. , 1997, , .		9
59	On Nonregular Feedback Linearization**An earlier version of this paper was presented at the IFAC Conference on System Structure and Control, held in Nantes, France during 5â€"7 July 1995. The Published Proceedings of this IFAC Meeting may be ordered from: Elsevier Science Limited, The Boulevard, Langford Lane, Kidlington Oxford OX5 1GB, U.K. The paper was recommended for publication in revised form by Associate Editor Henk Nijmeijer under the direction of Editor Tamer	3.0	29
62	BaÅŸar Automatica, 1997, 33, 1339-1344. Tracking control of nonlinear systems with disturbance attenuation. Comptes Rendus Mathematique, 1997, 325, 329-338.	0.5	6
63	A remark on nonlinear accessibility conditions and infinite prolongations. Systems and Control Letters, 1997, 31, 77-83.	1.3	15
64	Measure of closed-loop nonlinearity and interaction for nonlinear chemical processes. AICHE Journal, 1997, 43, 2261-2278.	1.8	13
65	Tracking Control of Mobile Robots: A Case Study in Backstepping**This paper was not presented at any IFAC meeting. This paper was recommended for publication in revised form by Associate Editor Alberto Isidori under the direction of Editor Tamer BaÅŸar Automatica, 1997, 33, 1393-1399.	3.0	756
66	Adaptive control of nonholonomic robotic systems. Journal of Field Robotics, 1998, 15, 365-393.	0.7	24
67	Decentralized adaptive control of nonholonomic mechanical systems. Computers and Electrical Engineering, 1998, 24, 135-165.	3.0	2
68	Some Examples and Remarks on Quasi-Static Feedback of Generalized States. Automatica, 1998, 34, 993-999.	3.0	17
69	Reaction and flow variants/invariants in chemical reaction systems with inlet and outlet streams. AICHE Journal, 1998, 44, 1858-1867.	1.8	41
70	Differential-geometric methods for control of electric motors. International Journal of Robust and Nonlinear Control, 1998, 8, 923-954.	2.1	84
71	Generalized Bezout Identity. Applicable Algebra in Engineering, Communications and Computing, 1998, 9, 91-116.	0.3	36
72	A negative answer to the $\hat{\Gamma}$ -L $\hat{A}\frac{1}{4}$ roth problem in two variables. Comptes Rendus Mathematique, 1998, 327, 881-886.	0.5	5
73	Interconnected nonlinear systems, local and global stabilization. Systems and Control Letters, 1998, 35, 317-323.	1.3	9
74	Differential Flatness and Absolute Equivalence of Nonlinear Control Systems. SIAM Journal on Control and Optimization, 1998, 36, 1225-1239.	1.1	91

#	ARTICLE	IF	Citations
75	Configuration Flatness of Lagrangian Systems Underactuated by One Control. SIAM Journal on Control and Optimization, 1998, 36, 164-179.	1.1	79
76	A new approach to dynamic feedback linearization control of an induction motor. IEEE Transactions on Automatic Control, 1998, 43, 391-397.	3.6	145
77	Motion planning for a 3-DOF robot with a passive joint., 0,,.		8
78	Control of a car-like robot using a virtual vehicle approach. , 0, , .		13
79	Regulation of non-minimum phase outputs in a PVTOL aircraft. , 0, , .		14
80	Path-tracking for articulated vehicles with off-axle hitching. IEEE Transactions on Control Systems Technology, 1998, 6, 515-523.	3.2	95
81	Control of a car-like robot using a virtual vehicle approach. , 0, , .		15
82	Control of a car-like robot using a dynamic model. , 0, , .		22
83	Flatness in the passivity based control of DC-to-DC power converters. , 0, , .		12
84	Topological property for collision-free nonholonomic motion planning: the case of sinusoidal inputs for chained form systems. IEEE Transactions on Automation Science and Engineering, 1998, 14, 671-680.	2.4	74
85	Guidelines in nonholonomic motion planning for mobile robots. , 1998, , 1-53.		211
86	Nonlinear parametric identification of a McKibben artificial pneumatic muscle using flatness property of the system. , 0, , .		8
87	Inverse Kinematics for an Underconstrained Cable Suspension Manipulator., 1998,, 97-104.		12
88	Optimal trajectory planning and tracking of a PVTOL aircraft using higher-order method. , 1998, , .		0
89	Multilevel Path Planning for Nonholonomic Robots Using Semiholonomic Subsystems. International Journal of Robotics Research, 1998, 17, 840-857.	5.8	92
90	Adaptive control of electrically driven nonholonomic mechanical systems. , 0, , .		1
91	Path following with reduced off-tracking for the n-trailer system. , 0, , .		14
92	Control of uncertain nonholonomic mechanical systems using differential flatness. , 1998, , .		2

#	Article	IF	Citations
93	Nonholonomic stabilization and isospectral flows. , 0, , .		1
94	On a control for a class of nonholonomic systems with drift using time-state control form. , 0, , .		10
95	2kπ, the juggling robot. , 0, , .		4
96	Redundant nonholonomic mechanical systems: simulation studies., 0, , .		o
97	Trajectory morphing for nonlinear systems. , 1998, , .		15
98	Motion planning for two classes of nonlinear systems with delays depending on the control. , 0, , .		27
99	Flatness, tangent systems and flat outputs. , 1998, , .		8
100	Optimal planning of an under-actuated planar body using higher-order method., 0,,.		4
101	A distributed parameter approach to the control of a tubular reactor: a multivariable case. , 0, , .		17
102	Motion planning for a class of partial differential equations with boundary control., 0,,.		18
103	Observation and Control of a Simplified Car. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 55-59.	0.4	6
104	Learning Control for Nonholonomic Mechanical Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 745-750.	0.4	4
105	Nilpotent Approximation of Nonholonomic Systems with Singularities: A Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 751-756.	0.4	4
106	Applications of the Geometry of Goursat Structures to Nonholonomic Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 763-768.	0.4	3
107	On the input-output linearization of nonlinear systems *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 745-750.	0.4	5
108	A Control of a Class of Nonholonomic Systems with Drift Using Time-State Control Form. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 757-762.	0.4	5
109	Quasi-Finite Linear Delay Systems: Theory and Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 169-173.	0.4	2
110	Some New Interpretations of Controllability and their Practical Implications *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 49-58.	0.4	0

#	Article	IF	CITATIONS
111	From Open-Loop Trajectories to Stabilizing State Feedback -Application to a CSTR IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 769-774.	0.4	4
112	Numerical Stabilization of a Rigid Spacecraft with Two Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 73-78.	0.4	2
113	Exponential Stabilization of Certain Configurations of the General N -Trailer System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 207-212.	0.4	8
114	The Tangent Linear System of the Minimal System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 61-66.	0.4	O
115	Linearizability of Chemical Reactors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 489-494.	0.4	6
116	High Speed Network Congestion Control with a Simplified Time-Varying Delay Mode. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 43-47.	0.4	0
117	Path-Tracking for Articulated Vehicles via Exact and Jacobian Linearization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 159-164.	0.4	9
118	Learning control for uncertain nonholonomic mechanical systems. , 0, , .		2
119	Relative Flatness and Flatness of Implicit Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 495-500.	0.4	2
120	Trends in mobile robot and vehicle control. , 1998, , 151-175.		32
121	Trajectory generation for a four wheel steering tractor-trailer system: a two-step method. Robotica, 1998, 16, 381-386.	1.3	12
122	Autonomous vehicle parallel parking design using function fitting approaches. Robotica, 1998, 16, 159-170.	1.3	12
123	Cascade control of the toycopter. , 1999, , .		11
124	Modelling and control of a 2 D.O.F. high-precision positionning system. , 1999, , .		2
125	Motion planning and nonlinear simulations for a tank containing a fluid. , 1999, , .		30
126	A comparative case study of direct inverse control and input-output-linearization using a neural plant model., 1999,,.		О
127	Hydraulic actuators for flexible robots: A flatness based approach for tracking and vibration control. , $1999, , .$		7
128	Nonlinear control of a continuously variable transmission using hyperstability theory. , 1999, , .		6

#	Article	IF	CITATIONS
129	Sliding mode control of a PM stepper motor from the perspective of differentially flat systems. , 1999, , .		4
130	Regulation of the longitudinal dynamics of an helicopter: a Liouvillian systems approach. , 1999, , .		4
131	Optimization of higher-order systems and extensions of minimum principle. , 0, , .		1
132	On the control of the underactuated ship: a trajectory planning approach. , 0, , .		25
133	Soft landing on a planet: a trajectory planning approach for the Liouvillian model. , 1999, , .		3
134	Control of symmetric mechanical systems with incomplete model information using reduction, dynamic feedback and flatness. , 1999, , .		0
135	General n-trailer, differential flatness and equivalence., 0, , .		4
137	Time optimal paths for a mobile robot with one trailer. , 0, , .		18
138	Fast and smooth controls for a trolley crane. Journal of Decision Systems, 1999, 8, 367-388.	2.2	4
139	Invariant tracking and stabilization: problem formulation and examples. Lecture Notes in Control and Information Sciences, 1999, , 261-273.	0.6	18
140	Some new interpretations of controllability and their practical implications. Annual Reviews in Control, 1999, 23, 197-206.	4.4	6
141	Nonlinear trajectory control of high pressure thawing. Journal of Process Control, 1999, 9, 351-356.	1.7	12
142	Note sur l'accessibilité des systèmes non linéaires à retards. Comptes Rendus Mathematique, 1999, 329, 545-550.	0.5	19
143	Une réponse négative au problème de Noether différentiel. Comptes Rendus Mathematique, 1999, 328, 99-104.	0.5	0
144	Differential flatness of two one-forms in arbitrary number of variables. Systems and Control Letters, 1999, 36, 317-326.	1.3	5
145	An algorithm for orbital feedback linearization of single-input control affine systems. Systems and Control Letters, 1999, 38, 271-281.	1.3	53
146	Trajectory tracking control of dynamic non-holonomic systems with unknown dynamics. International Journal of Robust and Nonlinear Control, 1999, 9, 905-922.	2.1	39
147	Polynomial motion of non-holonomic mechanical systems of chained form. Mathematical Methods in the Applied Sciences, 1999, 22, 1153-1173.	1.2	3

#	Article	IF	CITATIONS
148	Some open questions related to flat nonlinear systems. Communications and Control Engineering, 1999, , 99-103.	1.0	10
149	Modelling and Control of Wheeled Mobile Robots not Satisfying Ideal Velocity Constraints: The Unicycle Case. European Journal of Control, 1999, 5, 293-311.	1.6	2
150	Differential flatness based full authority helicopter control design. , 0, , .		40
151	Vision guided landing of an unmanned air vehicle., 0,,.		26
152	A Lie-Backlund approach to equivalence and flatness of nonlinear systems. IEEE Transactions on Automatic Control, 1999, 44, 922-937.	3.6	605
153	Control of nonlinear non-minimum phase systems using dynamic sliding mode. International Journal of Systems Science, 1999, 30, 183-198.	3.7	8
154	Observer-controller design for global tracking of nonholonomic systems. , 1999, , 207-228.		5
155	Tracking control of wheeled mobile robots with unknown dynamics. , 0, , .		12
156	Modelling and control of a high-precision positionning system actuated by a linear synchronous motor a.t. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2316-2321.	0.4	2
157	Linearization by prolongations: New bounds for three input systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2586-2591.	0.4	1
158	Redundant nonholonomic mechanical systems: characterization and control. Robotica, 1999, 17, 203-217.	1.3	11
159	Control of nonholonomic mechanical systems using reduction and adaptation. Robotica, 1999, 17, 249-260.	1.3	4
160	Steering nonholonomic systems via nilpotent approximations: the general two-trailer system. , 0, , .		15
161	Conversion of the kinematics of the n-trailer system into Kumpera-Ruiz normal form and motion planning through the singular locus. , 0 , , .		0
162	Exponential stabilization of nonlinear driftless systems with robustness to unmodeled dynamics. ESAIM - Control, Optimisation and Calculus of Variations, 1999, 4, 1-35.	0.7	37
163	Curve fitting approach to motion planning of nonholonomic chained systems. , 0, , .		3
164	Stable tracking control for unmanned aerial vehicles using non-inertial measurements. , 0, , .		3
165	Robust Control of Flat Nonlinear System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 163-164.	0.4	6

#	Article	IF	CITATIONS
166	On Motion Planning for Robotic Manipulation with Rolling Contacts. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 255-260.	0.4	1
167	Modified Optimal Control: Global Asymptotic Stabilization of Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 199-204.	0.4	7
168	From PID to Model Predictive Control: A Flatness Based Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 469-474.	0.4	3
169	Constrained Optimization of Nonlinear, Dynamic Chemical Processes – A Normalized Form Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 767-772.	0.4	4
170	Flatness-based control of the separately excited DC drive. , 2001, , 439-452.		6
171	Flatness based analysis of a chemical reactor pilot plant., 0, , .		0
172	A Liouvillian systems approach for the trajectory planning-based control of helicopter models. International Journal of Robust and Nonlinear Control, 2000, 10, 301-320.	2.1	30
173	Motion planning for the heat equation. International Journal of Robust and Nonlinear Control, 2000, 10, 629-643.	2.1	170
174	Stabilization of relative equilibria for underactuated systems on Riemannian manifolds. Automatica, 2000, 36, 1819-1834.	3.0	41
175	Control of underactuated spacecraft with bounded inputs. Automatica, 2000, 36, 1153-1169.	3.0	163
176	Robust exponential regulation of nonholonomic systems with uncertainties. Automatica, 2000, 36, 189-209.	3.0	306
177	On the Control of the Hovercraft System. Journal of Dynamical and Control Systems, 2000, 10, 151-163.	0.4	30
178	Title is missing!. Journal of Dynamical and Control Systems, 2000, 10, 87-105.	0.4	13
179	Modules and Behaviours in nD Systems Theory. Multidimensional Systems and Signal Processing, 2000, 11, 11-48.	1.7	56
180	Control of Spacecraft Subject to Actuator Failures: State-of-the-Art and Open Problems. Journal of the Astronautical Sciences, 2000, 48, 337-358.	0.8	78
181	Reglerentwurf mit Hilfe des Automatischen Differenzierens (Controller Design using Automatic) Tj ETQq1 1 0.78	4314 rgB1 0.4	 Qyerlock 1
182	Flachheitsbasierte Regelung eines hydraulischen Antriebs mit zwei Ventilen f $\tilde{A}^{1}\!\!/\!4$ r einen Gro \tilde{A} Ÿmanipulator (Flatness Based Control of a Two Valve Hydraulic Joint of a Large Manipulator). Automatisierungstechnik, 2000, 48, 124.	0.4	7
183	Anwendungen der nichtlinearen Regelungstheorie in der Mechatronik (Applications of Nonlinear) Tj ETQq1 1 0.7	84314 rgE 0.4	BT <i>[</i> Overlock

#	Article	IF	CITATIONS
184	Stabilization of the general two-trailer system. , 0, , .		18
185	Sliding mode control of a differentially flat vibrational mechanical system: experimental results. , 0, ,		7
186	The Cycab robot: a differentially flat system. , 0, , .		16
187	Sliding Mode Control of Nonlinear Mechanical Vibrations 1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 674-678.	0.9	15
188	A new computational approach to real-time trajectory generation for constrained mechanical systems. , 0, , .		143
189	On the control of the "ball and beam" system: a trajectory planning approach. , 0, , .		11
190	State feedbacks without asymptotic observers and generalized PID regulators. , 2001, , 367-384.		27
191	Zur Regelung einer elektromagnetisch gelagerten Spindel (On the Control of an Electromagnetically) Tj ETQq1 1 (0.784314 0.6.4	rgBT /Over <mark>l</mark> o
192	Flachheitsbasierte Regelung und ZustandsschÃt ung fÃ⅓r einen Fedbatch-Bioprozess (Flatness Based) Tj ETQq0 224.	0 0 rgBT / 0.4	Overlock 10
193	On geometry of control systems equivalent to canonical contact systems: regular points, singular points, and flatness. , 0, , .		1
194	On the linearization via a restricted class of dynamic feedback. IEEE Transactions on Automatic Control, 2000, 45, 1385-1391.	3.6	24
195	The control of the hovercraft system: a flatness based approach. , 0, , .		14
196	Trajectory planning of robots with dynamics and inequalities. , 0, , .		16
197	Regulation of the PPR mobile robot with a flexible joint: a combined passivity and flatness approach. , $0, , .$		0
198	Choice of control law in electropneumatics. Expertise using an industrial benchmark and some new trends. , 0 , , .		6
199	Flachheitsbasierte Randsteuerung parabolischer Systeme mit verteilten Parametern (Flatness-based) Tj ETQq1 1 0 478.).784314 r 0.4	rgBT Overloo 13
200	One-chained form and sliding mode stabilization for a nonholonomic perturbed system. , 2000, , .		8
201	Numerische Systeminversion (Numerical System Inversion). Automatisierungstechnik, 2000, 48, .	0.4	4

#	Article	IF	Citations
202	Randsteuerung von WÃ μ metauschern mit Ã η rtlich verteilten Parametern: Ein flachheitsbasierter Zugang (Boundary Control of Heat Exchangers with Spatially Distributed Parameters: A) Tj ETQq0 0 0 rgBT /Ove	rlo ck 410 T	f 5 0 <i>0</i> 37 Td (
203	On trajectory optimization for polynomial systems via series expansions. , 0, , .		1
204	Stabilization of Nonholonomic Systems Using Isospectral Flows. SIAM Journal on Control and Optimization, 2000, 38, 855-874.	1.1	26
205	Discussion on: â€~Nonlinear Missile Autopilot Design Based on Angle of Attack'. European Journal of Control, 2000, 6, 165-169.	1.6	0
206	Quintic G/sup 2/-splines for trajectory planning of autonomous vehicles. , 0, , .		25
207	On the stability of biped with point foot-ground contact. , 0, , .		8
208	Robust stabilization of driftless systems with hybrid open-loop/feedback control. , 2000, , .		12
210	Trajectory planning of differentially flat systems with dynamics and inequalities. , 2000, , .		3
211	A new computational framework for trajectory optimization of higher-order dynamic systems. , 2000, , .		0
212	Continuous-time linear predictive control and flatness: A module-theoretic setting with examples. International Journal of Control, 2000, 73, 606-623.	1.2	96
213	Passivity Versus Flatness in the Regulation of an Exothermic Chemical Reactor. European Journal of Control, 2000, 6, 210-226.	1.6	3
214	Non-minimum phase output reference trajectory tracking for a PVTOL aircraft. , 0, , .		4
215	Oscillations, SE(2)-snakes and motion control: A study of the Roller Racer. Dynamical Systems, 2001, 16, 347-397.	0.2	76
216	Flatness-based boundary control of a nonlinear parabolic equation modelling a tubular reactor., 2001,, 45-54.		9
217	Robust stabilization of the plate-ball manipulation system. , 0, , .		9
218	A feedback control scheme for reversing a truck and trailer vehicle. IEEE Transactions on Automation Science and Engineering, 2001, 17, 915-922.	2.4	99
219	Control of mobile platforms using a virtual vehicle approach. IEEE Transactions on Automatic Control, 2001, 46, 1777-1782.	3.6	207
220	A polynomial approach to nonlinear system controllability. IEEE Transactions on Automatic Control, 2001, 46, 1782-1788.	3.6	45

#	Article	IF	CITATIONS
221	Chained form approximation of a driftless system. Application to the exponential stabilization of the general N-trailer system. International Journal of Control, 2001, 74, 1612-1629.	1.2	28
222	Flatness of Heavy Chain Systems. SIAM Journal on Control and Optimization, 2001, 40, 475-495.	1.1	86
223	Trajectory Optimization for Flat Dynamic Systems. Industrial & Engineering Chemistry Research, 2001, 40, 2089-2102.	1.8	9
224	Smooth motion planning for car-like vehicles. IEEE Transactions on Automation Science and Engineering, 2001, 17, 498-501.	2.4	134
226	Trajectory Planning of Differentially Flat Systems with Dynamics and Inequalities. Journal of Guidance, Control, and Dynamics, 2001, 24, 219-227.	1.6	141
227	Transformation of optimal control lagrange problems to Mayer problems with feedback linearized state equations., 2001,,.		0
228	Control of an industrial polymerization reactor using flatness. , 2001, , 237-243.		0
229	On the generalized pid control of linear dynamic systems. , 2001, , .		10
230	Robust speed control of an automotive engine using second order sliding modes., 2001,,.		14
231	Global stability without motion planning may be worse than local tracking. , 2001, , .		2
232	Optimal tracking controller design for non-linear non minimum-phase systems. , 2001, , .		0
233	Pid-like regulators for a class of linear delay systems. , 2001, , .		8
234	Path-tracking of a tractor-trailer vehicle via Lyapunov techniques. , 2001, , .		3
235	Feedback linearization of single-input control affine time-varying nonlinear systems. , 2001, , .		1
236	Flatness of nonlinear control systems and exterior differential systems. Lecture Notes in Control and Information Sciences, 2001, , 205-227.	0.6	1
237	Motion planning for heavy chain systems. , 2001, , 229-236.		4
238	Computing the flat outputs of Engel differential systems: the case study of the bi-steerable car. , 2001, , \cdot		4
239	Control of a reduced size model of US navy crane using only motor position sensors. , 2001, , 1-12.		8

#	Article	IF	Citations
240	Flat systems, equivalence and feedback. , 2001, , 5-32.		15
241	Flat systems: open problems, infinite dimensional extension, symmetries and catalog., 2001,, 33-57.		7
242	Trajectory tracking for π-flat nonlinear delay systems with a motor example. , 2001, , 339-351.		9
243	Sliding mode control of the prismatic-prismatic-revolute mobile robot with a flexible joint., 2001,, 421-441.		0
244	Tracking control of a nonlinear system with input-dependent delay. , 0, , .		8
245	On a generalization of pid regulators for delay systems *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 13-18.	0.4	2
246	Controllability of systems described by convolutional or delay-differential equations. , 0, , .		0
247	Control of nonlinear systems with two time scales. , 2001, , .		0
248	New Flatness Conditions for Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 191-196.	0.4	16
249	Modeling of Disturbed Flat System for Robust Control Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 759-762.	0.4	4
250	Polynomial Controller Design Based on Flatness. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 213-218.	0.4	11
251	Some Steps Towards Autonomous Cars. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 9-17.	0.4	5
252	Normal Forms and Invariants of Nonlinear Single-Input Systems with Noncontrollable Linearization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 139-144.	0.4	9
253	Stability of Nonlinear Flatness Based Extended PID-Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 203-208.	0.4	0
254	A Generalization of Flatness to Nonlinear Systems of Partial Differential Equations. Application to the Command of a Flexible Rod. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 219-223.	0.4	11
255	Inversion Based Constrained Trajectory Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1211-1216.	0.4	40
256	On the pH Control of a CSTR System: An Invariant Stabilization Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1337-1342.	0.4	1
257	Sufficient Conditions for the Solution of the Semiglobal Output Tracking Problem Using Practical Internal Models 2. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1487-1492.	0.4	5

#	Article	IF	CITATIONS
258	Differential Algebraic Approach for Some Controllability Properties of a Bioreactor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1573-1578.	0.4	0
259	Transforming nonholonomic control systems into the canonical contact form. , 0, , .		3
260	Differential flatness based nonlinear predictive control of fed-batch bioreactors. Control Engineering Practice, 2001, 9, 889-899.	3.2	56
261	DC-to-AC power conversion on a â€~boost' converter. International Journal of Robust and Nonlinear Control, 2001, 11, 589-600.	2.1	17
262	A new approach to reaching mode of VSS using trajectory planning. Automatica, 2001, 37, 763-767.	3.0	6
263	Minimum time constrained control of acid strength on a sulfuric acid alkylation unit. Chemical Engineering Science, 2001, 56, 2767-2774.	1.9	12
264	Transfer equivalence and realization of nonlinear higher order input–output difference equations. Automatica, 2001, 37, 1771-1778.	3.0	67
265	Algebraic necessary and sufficient conditions of input-output linearization. Forum Mathematicum, 2001, 13, .	0.3	3
267	A flatness based approach to trajectory modification of residual motion of highrise elevators. , 2001, , .		7
268	Optimal Control Bolza and Transformed Mayer Problems with Feedback Linearized State Equations. Journal of Guidance, Control, and Dynamics, 2001, 24, 1043-1046.	1.6	0
269	Transforming a single-input nonlinear system to a strict feedforward form via feedback. , 2001, , 527-542.		16
270	A flatness based algorithm for optimal periodic control problems. , 2001, , .		1
271	New Computational Framework for Trajectory Optimization of Higher-Order Dynamic Systems. Journal of Guidance, Control, and Dynamics, 2001, 24, 228-236.	1.6	28
272	Constrained trajectory generation for micro-satellite formation flying. , 2001, , .		16
273	A comparative study of three nonlinear controllers for TCSC. , 0, , .		4
274	Nilpotentization of the kinematics of the n-trailer system at singular points and motion planning through the singular locus. International Journal of Control, 2001, 74, 628-637.	1.2	8
275	Extended goursat normal form: a geometric characterization., 2001,, 323-338.		2
276	Digital flatness-based robust controller applied to a thermal process. , 0, , .		13

#	Article	IF	Citations
277	Relative Flatness and Flatness of Implicit Systems. SIAM Journal on Control and Optimization, 2001, 39, 1929-1951.	1.1	32
278	Spin-Axis Stabilization of a Rigid Spacecraft Using Two Reaction Wheels. Journal of Guidance, Control, and Dynamics, 2001, 24, 1046-1049.	1.6	46
279	Trajectory Control and Interconnection of 1D and nD Systems. SIAM Journal on Control and Optimization, 2001, 40, 107-134.	1.1	55
280	Groups of unmanned vehicles: differential flatness, trajectory planning, and control. , 0, , .		12
281	An extension of predictive control, PID regulators and Smith predictors to some linear delay systems. International Journal of Control, 2002, 75, 728-743.	1.2	58
282	Modification of residual vibrations in elevators with time-varying cable lengths. , 2002, , .		1
283	Real-time trajectory generation for the cooperative path planning of multi-vehicle systems. , 0, , .		29
284	Comment on "Order-recursive factorization of the pseudoinverse of a covariance matrix" [with reply]. IEEE Transactions on Automatic Control, 2002, 47, 1952-1957.	3.6	6
285	On the nonlinear control of TCSC. , 0, , .		6
286	Cycab bi-steerable cars: a new family of differentially flat systems. Advanced Robotics, 2002, 16, 445-462.	1.1	6
287	Unifying Treatment to Control of Nonlinear Systems with Two Timescales. Journal of Guidance, Control, and Dynamics, 2002, 25, 975-979.	1.6	7
288	Feedback Equivalence to Feedforward Forms for Nonlinear Single-Input Systems. , 2002, , 269-286.		8
289	Output tracking of a non-linear non-minimum phase PVTOL aircraft based on non-linear state feedback control. International Journal of Control, 2002, 75, 466-473.	1.2	58
290	Trajectory Planning and Control for Planar Robots with Passive Last Joint. International Journal of Robotics Research, 2002, 21, 575-590.	5.8	110
291	On Path Planning and Obstacle Avoidance for Nonholonomic Platforms with Manipulators: A Polynomial Approach. International Journal of Robotics Research, 2002, 21, 367-383.	5.8	56
292	Two motion planning approaches for six-legged robot. , 0, , .		3
293	Systems engineering in the design of mechatronic systems. International Journal of Vehicle Design, 2002, 28, 18.	0.1	5
294	Modeling and flat control law for a fine pointing system based on semi active magnetic bearings., 0,,.		0

#	Article	IF	CITATIONS
295	Flachheitsbasierte Randsteuerung von elastischen Balken mit Piezoaktuatoren (Flatness based) Tj ETQq0 0 0 rgBT	Oyerlock	19 Tf 50 74
296	Robust Nonlinear Tracking Control Based on Differential Flatness. Automatisierungstechnik, 2002, 50, 615.	0.4	17
297	Flatness-based optimization of batch processes. Computer Aided Chemical Engineering, 2002, , 589-594.	0.3	O
298	On the structure of linear recurrent error-control codes. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 8, 703-713.	0.7	6
299	Nonholonomic Motion Planning for Coupled Planar Rigid Bodies with Passive Revolute Joints. International Journal of Robotics Research, 2002, 21, 563-574.	5.8	7
300	Experimental stabilization of tractor and tractor-trailer like vehicles. , 0, , .		7
301	FLATNESS-BASED CLUTCH CONTROL FOR AUTOMATED MANUAL TRANSMISSIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 361-366.	0.4	2
302	A DYNAMIC INVERSION BASED CONTROLLER FOR PATH FOLLOWING OF CAR-LIKE VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 49-54.	0.4	7
303	Adjoint-type iterative learning control for nonlinear nonminimum phase system - application to a planar model of a helicopter \$., 0,,.		3
304	Linearization by prolongations: new bounds on the number of integrators. , 0, , .		O
305	Sliding Modes, Passivity, and Flatness. Automation and Control Engineering, 2002, , .	0.1	9
306	CLASSICAL AND HIGHER SYMMETRIES OF CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 453-458.	0.4	O
307	A NEW COMPUTATIONAL METHOD FOR OPTIMAL CONTROL OF A CLASS OF CONSTRAINED SYSTEMS GOVERNED BY PARTIAL DIFFERENTIAL EQUATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 317-322.	0.4	6
308	Modeling and Control of Solenoid Valves for Internal Combustion Engines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 197-202.	0.4	10
309	Adaptive Stabilization of Uncertain Nonholonomic Systems by Output Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 463-468.	0.4	1
310	ANALYSIS OF FLATNESS USING BOND GRAPHS AND BICAUSALITY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 25-30.	0.4	2
311	ANALYSIS OF OSCILLATORY CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 241-246.	0.4	1
313	Quintic G/sup 2/-splines for the iterative steering of vision-based autonomous vehicles. IEEE Transactions on Intelligent Transportation Systems, 2002, 3, 27-36.	4.7	103

#	Article	IF	CITATIONS
314	Sliding Modes, Differential Flatness and Integral Reconstructors., 2002,, 315-341.		5
315	Global configuration stabilization for the VTOL aircraft with strong input coupling. IEEE Transactions on Automatic Control, 2002, 47, 1949-1952.	3.6	180
316	Dynamic second-order sliding mode control of the hovercraft vessel. IEEE Transactions on Control Systems Technology, 2002, 10, 860-865.	3.2	135
317	A Perspective on Methods for Trajectory Optimization. , 2002, , .		65
318	Towards Real-Time Computation of Optimal Controls for Nonlinear Systems. , 2002, , .		31
319	Variable Structure Systems: Towards the 21st Century. , 2002, , .		59
320	Regulation and tracking for the average boost converter circuit: A generalized proportional integral approach. International Journal of Control, 2002, 75, 988-1001.	1.2	10
321	Path-tracking for tractor-trailers with hitching of both the on-axle and the off-axle kind., 0,,.		12
322	Dynamics and solutions to some control problems for water-tank systems. IEEE Transactions on Automatic Control, 2002, 47, 594-609.	3.6	89
323	Real-Time Motion Planning for Agile Autonomous Vehicles. Journal of Guidance, Control, and Dynamics, 2002, 25, 116-129.	1.6	602
324	Flatness-based boundary control of a class of quasilinear parabolic distributed parameter systems. International Journal of Control, 2002, 75, 1219-1230.	1.2	105
325	A note on feedback linearizing control for open-channel hydraulic systems. , 0, , .		1
326	Feedback Classification of Nonlinear Single-Input Control Systems with Controllable Linearization: Normal Forms, Canonical Forms, and Invariants. SIAM Journal on Control and Optimization, 2002, 41, 1498-1531.	1.1	41
327	Hybrid Control of a Truck and Trailer Vehicle. Lecture Notes in Computer Science, 2002, , 21-34.	1.0	29
328	Control and trajectory tracking by flatness of a time-variant stator flux motor. , 0, , .		2
331	Optimal dynamic-inversion-based control of an overhead crane. IET Control Theory and Applications, 2002, 149, 405-411.	1.7	110
332	Poincar� Normal Form for a Class of Driftless Systems in a One-Dimensional Submanifold Neighborhood. Mathematics of Control, Signals, and Systems, 2002, 15, 256-274.	1.4	4
333	Influence of the process design on the control strategy: application in electropneumatic field. Control Engineering Practice, 2002, 10, 727-735.	3.2	27

#	Article	IF	Citations
334	Nonlinearizable single-input control systems do not admit stationary symmetries. Systems and Control Letters, 2002, 46, 1-16.	1.3	32
335	Key problems in the extension of module-behaviour duality. Linear Algebra and Its Applications, 2002, 351-352, 761-798.	0.4	10
336	Control of an industrial polymerization reactor using flatness. Journal of Process Control, 2002, 12, 659-665.	1.7	26
337	On the linearizability of nonisothermal continuous stirred-tank reactors. Automatica, 2002, 38, 269-278.	3.0	7
338	On Motion Planning for Robotic Manipulation with Permanent Rolling Contacts. International Journal of Robotics Research, 2002, 21, 443-461.	5.8	25
339	Higher Symmetries and the Brunovskii Infinitesimal Form of Controlled Systems. Differential Equations, 2002, 38, 1619-1627.	0.1	1
340	Correcteurs proportionnels-intégraux généralisés. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 7, 23-41.	0.7	187
341	Higher-order sliding mode stabilization for a class of nonholonomic perturbed systems. Automatica, 2003, 39, 1077-1083.	3.0	152
342	Adaptive stabilization of uncertain nonholonomic systems by state and output feedback. Automatica, 2003, 39, 1451-1460.	3.0	218
343	Robustness analysis of exact feedforward linearization based on differential flatness. Automatica, 2003, 39, 1941-1946.	3.0	61
344	Flat output characterization for linear systems using polynomial matrices. Systems and Control Letters, 2003, 48, 69-75.	1.3	95
345	Flatness-based clutch control for automated manual transmissions. Control Engineering Practice, 2003, 11, 1353-1359.	3.2	106
346	Tracking control of second-order chained form systems by cascaded backstepping. International Journal of Robust and Nonlinear Control, 2003, 13, 95-115.	2.1	44
347	Efficient optimization approaches to nonlinear model predictive control. International Journal of Robust and Nonlinear Control, 2003, 13, 309-329.	2.1	24
348	Contributions to flatness-based control of systems with input-dependent delays. Proceedings in Applied Mathematics and Mechanics, 2003, 2, 104-105.	0.2	0
349	Flachheitsbasierte Steuerung eines Timoshenko-Balkens. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2003, 83, 119-127.	0.9	15
350	Visual servoing of a ugv from a uav using differential flatness. , 0, , .		7
351	Nonholonomic navigation and control of cooperating mobile manipulators. IEEE Transactions on Automation Science and Engineering, 2003, 19, 53-64.	2.4	248

#	Article	IF	CITATIONS
352	Real-time trajectory generation for flat systems with constraints., 2003,, 385-394.		11
353	Exact feedforward linearization based on differential flatness. International Journal of Control, 2003, 76, 537-556.	1.2	121
354	Constructive controllability algorithms for motion planning and optimization. IEEE Transactions on Automatic Control, 2003, 48, 575-589.	3.6	6
355	Modelling of Longitudinal Disturbed Aircraft Model by Flatness Approach., 2003,,.		11
356	Coordinated Control of Uninhabited Air Vehicles with Communication and Processing Power Limitations., 2003,,.		3
357	Autonomous Vehicle Technologies for Small Fixed Wing UAVs. , 2003, , .		49
358	Low-observable nonlinear trajectory generation for unmanned air vehicles. , 0, , .		23
359	Analysis and design of oscillatory control systems. IEEE Transactions on Automatic Control, 2003, 48, 1164-1177.	3.6	38
360	Robust adaptive motion/force tracking control of uncertain nonholonomic mechanical systems. IEEE Transactions on Automation Science and Engineering, 2003, 19, 175-181.	2.4	100
361	Round trip time TCP tracking: a first step towards QoS pricing. International Journal of Systems Science, 2003, 34, 607-614.	3.7	5
362	Nonregular feedback linearization: A nonsmooth approach. IEEE Transactions on Automatic Control, 2003, 48, 1772-1776.	3.6	14
363	Linearization of discrete-time systems via restricted dynamic feedback. IEEE Transactions on Automatic Control, 2003, 48, 1646-1650.	3.6	9
364	A switching algorithm for global exponential stabilization of uncertain chained systems. IEEE Transactions on Automatic Control, 2003, 48, 1793-1798.	3.6	69
365	On the robustness of a nonlinear flat control. , 2003, , .		2
366	Motion Planning for a nonlinear Stefan Problem. ESAIM - Control, Optimisation and Calculus of Variations, 2003, 9, 275-296.	0.7	55
367	Motion planning for a class of boundary controlled linear hyperbolic PDE's involving finite distributed delays. ESAIM - Control, Optimisation and Calculus of Variations, 2003, 9, 419-435.	0.7	21
368	On the motion planning of rolling surfaces. Forum Mathematicum, 2003, 15, .	0.3	30
370	Output tracking of underactuated rotary inverted pendulum by nonlinear controller. , 0, , .		5

#	Article	IF	Citations
371	Path following with reduced off-tracking for multibody wheeled vehicles. IEEE Transactions on Control Systems Technology, 2003, 11, 598-605.	3.2	50
372	Control of batch cooling crystallization processes based on orbital flatness. International Journal of Control, 2003, 76, 1635-1643.	1.2	33
373	Path following of car-like vehicles using dynamic inversion. International Journal of Control, 2003, 76, 1724-1738.	1.2	13
374	A Generalized flatness concept for nonlinear delay systems: motivation by chemical reactor models with constant or input dependent delays. International Journal of Systems Science, 2003, 34, 529-541.	3.7	7
375	Active vibration absorbers using generalized PI and sliding-mode control techniques., 0,,.		8
376	A linear differential operator approach to flatness based tracking for linear and non-linear systems. International Journal of Control, 2003, 76, 266-276.	1.2	24
377	A unified computational framework for real-time optimal control. , 0, , .		22
378	Practical stabilization of driftless systems on lie groups: The transverse function approach. IEEE Transactions on Automatic Control, 2003, 48, 1496-1508.	3.6	196
379	Hierarchical trajectory generation for a class of nonlinear systems. , 0, , .		9
380	A three-wheel vehicle with expanding wheels: differential flatness, trajectory planning, and control. , 0, , .		7
381	Feedback control of a bi-steerable car using flatness application to trajectory tracking. , 0, , .		18
382	Cooperative task planning of multi-robot systems with temporal constraints., 0, , .		9
383	Differential flatness and cooperative tracking in the Lorenz system. , 0, , .		5
384	An algorithm for linearization of discrete-time systems via restricted dynamic feedback. , 0, , .		1
385	SDM hybrid control approach for nonlinear systems and its application to power systems. , 0, , .		1
386	Design of differentially flat planar space robots: a step forward in their planning and control., 0,,.		15
387	Inversion-based control of wheeled mobile robots. , 0, , .		1
388	Towards motion autonomy of a bi-steerable car: experimental issues from map-building to trajectory execution. , 0, , .		6

#	Article	IF	CITATIONS
389	Boundary control of a nonlinear Stefan problem. , 0, , .		13
390	Flatness-based feedback tracking control of a distributed parameter tubular reactor model. , 2003, , .		3
391	Discrete sliding mode control of permanent magnet stepper motor using flatness property. , 2003, , .		0
392	Stabilization of a unicycle-type mobile robot using higher order sliding mode control., 2003,,.		1
393	On controllability, parametrization, and output tracking of a linearized bioreactor model. Journal of Applied Mathematics, 2003, 2003, 243-276.	0.4	1
394	Robotic Simulation of the Docking and Path Following of an Autonomous Small Grain Harvesting System. , 2003, , .		1
395	Flatness-based control of a flexible beam in a gravitational field. , 2004, , .		10
396	DEVELOPMENT OF HITCHING POSITION CONTROL AND ITS APPLICATIONS., 0, , .		0
397	DEVELOPMENT OF TRAJECTORY CONTROL ALGORITHM FOR A TRAILER. , 0, , .		0
398	Parametrization for control of linear pde systems. , 0, , .		4
399	Global Stabilization of the PVTOL: Real-Time Application to A Mini-Aircraft. International Journal of Control, 2004, 77, 735-740.	1.2	75
400	Algorithmic Foundations of Robotics V. Springer Tracts in Advanced Robotics, 2004, , .	0.3	19
401	A Flatness Based Approach to Trajectory Modification of Residual Motion of Cable Transporter Systems. JVC/Journal of Vibration and Control, 2004, 10, 1441-1457.	1.5	12
402	Strict feedforward form and symmetries of nonlinear control systems. , 2004, , .		10
403	Planar space robots with coupled joints: differentially flat designs. , 2004, , .		1
404	Weighted canonical forms of nonlinear single-input control systems with noncontrollable linearization., 2004,,.		0
405	Robust tracking of nonlinear MIMO uncertain flat systems. , 0, , .		3
406	Control of a mobile robot with passive multiple trailers. , 2004, , .		24

#	Article	IF	CITATIONS
407	An autonomous car-like robot navigating safely among pedestrians. , 2004, , .		8
408	A Nonlinear Spencer Complex for the Group of Invertible Differential Operators and Its Applications. Acta Applicandae Mathematicae, 2004, 83, 1-23.	0.5	6
409	A Geometric Approach to Solving Problems of Control Constraints: Theory and a DAE Framework. Multibody System Dynamics, 2004, 11 , $343-364$.	1.7	109
412	On flat systems behaviors and observable image representations. Systems and Control Letters, 2004, 51, 51-55.	1.3	9
413	Modelling and Flatness-Based Control of a Carriage Actuated by Pneumatic Muscles. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 125-126.	0.2	0
414	A modal approach to flatness-based control of flexible structures. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 133-134.	0.2	17
415	Modelling and Control of a Hydraulic Actuated Large Scale Manipulator. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 141-142.	0.2	1
416	Motion planning for a circular elastic plate. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 149-150.	0.2	5
417	Nonlinear path following control of non-holonomic vehicles with the human as actuator in a parking application. International Journal of Robust and Nonlinear Control, 2004, 14, 513-524.	2.1	7
418	Internal dynamics of flat nonlinear SISO systems with respect to a non-flat output. Systems and Control Letters, 2004, 52, 323-327.	1.3	32
419	A constructive condition for dynamic feedback linearization. Systems and Control Letters, 2004, 52, 329-338.	1.3	8
420	Computation of state and input trajectories for flat systems using automatic differentiation. Automatica, 2004, 40, 459-464.	3.0	7
421	Numerical Solution of the Optimal Periodic Control Problem Using Differential Flatness. IEEE Transactions on Automatic Control, 2004, 49, 271-275.	3.6	29
422	A New Analytical Solution to Mobile Robot Trajectory Generation in the Presence of Moving Obstacles. , 2004, 20, 978-993.		130
423	A reduced-order analytical solution to mobile robot trajectory generation in the presence of moving obstacles. , 2004, , .		0
424	Flatness-Based Control of PER Protein Oscillations in a Drosophila Model. IEEE Transactions on Automatic Control, 2004, 49, 175-183.	3.6	21
425	Flatness based real-time trajectory generation for acceleration control of agile STT missile with constraints. , 0 , , .		0
426	The Autonomous Wheelchair "Easy―and its Hierarchical Control. Mathematical and Computer Modelling of Dynamical Systems, 2004, 10, 169-185.	1.4	1

#	Article	IF	CITATIONS
427	GPI control based on current control scheme for switched-capacitor step-down DC to DC converter. , 0, , .		0
428	Active vibration control in a nonlinear mechanical system using a flatness based sliding-mode control: experimental results. , 0, , .		1
429	Smooth Motion Generation for Unicycle Mobile Robots Via Dynamic Path Inversion., 2004, 20, 884-7.		37
430	On the Synchronization of a Pair of Independent Windshield Wipers. IEEE Transactions on Control Systems Technology, 2004, 12, 787-795.	3.2	22
431	A new flight guidance approach based on differential flatness. , 0, , .		1
432	Control of a Parallel Resonant Inverter. , 2004, , .		4
433	Pseudospectral Methods for Optimal Motion Planning of Differentially Flat Systems. IEEE Transactions on Automatic Control, 2004, 49, 1410-1413.	3.6	65
434	DC motor velocity control through a DC-to-DC power converter. , 2004, , .		54
435	A smooth starter for a DC machine: a flatness based approach. , 0, , .		25
436	Multidimensional behaviours: an algebraic approach to control theory for PDE. International Journal of Control, 2004, 77, 812-820.	1.2	19
437	Controllability of Quantum Harmonic Oscillators. IEEE Transactions on Automatic Control, 2004, 49, 745-747.	3.6	62
438	CONTROL OF THE CHUA'S SYSTEM BASED ON A DIFFERENTIAL FLATNESS APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1059-1069.	0.7	7
439	Satellite path planning by flatness approach., 0,,.		3
440	An algebraic and geometric look at park transformation: the case of permanent magnets synchronous motor. , 0, , .		1
441	Observer Based Learning Control for a Class of Nonlinear Systems With Time-Varying Parametric Uncertainties. IEEE Transactions on Automatic Control, 2004, 49, 275-281.	3.6	56
442	Strategies for and Analytical Solutions to Near-Optimal Formation Control of Nonholonomic Mobile Vehicles. , 2004, , .		0
443	Nonlinear trajectory generation for unmanned air vehicles with multiple radars. , 2004, , .		15
444	New Energy-based Nonlinear Controller for Hydraulic Piston Actuators. European Journal of Control, 2004, 10, 163-173.	1.6	21

#	Article	IF	CITATIONS
445	Simultaneous Control of Position and Orientation for Ball-Plate Manipulation Problem Based on Time-State Control Form. IEEE Transactions on Automation Science and Engineering, 2004, 20, 465-479.	2.4	38
446	Dissipativity Theory for Nonnegative and Compartmental Dynamical Systems With Time Delay. IEEE Transactions on Automatic Control, 2004, 49, 747-751.	3.6	54
447	Trajectory Control of Incompletely Restrained Parallel-Wire-Suspended Mechanism Based on Inverse Dynamics., 2004, 20, 840-850.		73
448	Robust residual generation for linear fault diagnosis: an algebraic setting with examples. International Journal of Control, 2004, 77, 1223-1242.	1.2	75
449	Multirate output feedback sliding mode control of permanent magnet stepper motor using flatness property. , 0 , , .		6
450	Hybrid adaptive control laws solving a path following problem for non-holonomic mobile manipulators. International Journal of Control, 2004, 77, 1297-1306.	1.2	30
451	Path-Tracking of a Tractor-Trailer Vehicle Along Rectilinear and Circular Paths: A Lyapunov-Based Approach. IEEE Transactions on Automation Science and Engineering, 2004, 20, 154-160.	2.4	109
452	Task-Space Tracking Control of Robot Manipulators via Quaternion Feedback. IEEE Transactions on Automation Science and Engineering, 2004, 20, 160-167.	2.4	83
453	Pseudo-differential operators in parametrization of boundary-value control systems. , 2004, , .		4
454	Symmetries and Minimal Flat Outputs of Nonlinear Control Systems. Lecture Notes in Control and Information Sciences, 0, , 65-86.	0.6	16
455	Flatness based control for chaotic boost converters., 0,,.		1
456	Planning Motions for Robotic Systems Subject to Differential Constraints. Springer Tracts in Advanced Robotics, 0, , 1-38.	0.3	3
457	Observers for a class of Liouvillian and, non-differentially flat systems. IMA Journal of Mathematical Control and Information, 2004, 21, 493-509.	1.1	20
458	Sliding Mode-Delta Modulation GPI Control of a DC Motor through a Buck Converter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 405-410.	0.4	24
459	Observers and an Online Trajectory Planning Algorithm for Boost Converters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1479-1484.	0.4	0
460	Modeling and flatness-based control of a 3d of helicopter laboratory experiment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 207-212.	0.4	5
461	Dynamic motion planning of a distributed collector solar field. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1117-1122.	0.4	2
462	Modeling and Control of an Electrorheological Actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 265-270.	0.4	4

#	Article	IF	CITATIONS
463	Maneuver regulation via transverse feedback linearization: Theory and examples. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 57-64.	0.4	13
464	A robustness analysis with respect to exogenous perturbations for flatness-based exact feedforward linearization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 195-200.	0.4	1
465	On time-invariant systems possessing time-dependent flat outputs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 201-206.	0.4	1
466	Flatness-based trajectory control of a pneumatically driven carriage with model uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 225-230.	0.4	8
467	A robust multivariable control for an electropneumatic system using backstepping design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 913-918.	0.4	3
468	Control of burgers' system via parametrization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1277-1282.	0.4	5
469	Higher Order Sliding Mode Control of Differentially Flat Systems - An Application to PM Stepper Motor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1395-1399.	0.4	1
470	On flatness necessary and sufficient conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 123-128.	0.4	15
471	Difference-Differential flatness of nonlinear delay systems with a chemical reactor example. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 189-194.	0.4	0
472	Flatness-Based Feedforward and Feedback Linearisation of the Ball & Plate Lab Experiment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 219-224.	0.4	8
473	Control via state estimations of some nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 41-48.	0.4	22
474	Flatness-based feedback control of diffusion-convection-reaction systems via k-summable power series. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 177-182.	0.4	7
475	Flatness based trajectory generation of quantum systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 183-187.	0.4	1
476	Flatness based control of the system "ball on the wheel― IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 213-218.	0.4	3
477	Generalized quadratic transformation and observer design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 483-488.	0.4	0
478	Flatness-based automotive solenoid valve control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 817-822.	0.4	4
479	Global Stabilization of the PVTOL: Real-Time Application to a Mini-Aircraft. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 235-240.	0.4	19
480	Fault Tolerance Methodology Using Model Reference Control and Parity Space Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 323-328.	0.4	1

#	Article	IF	CITATIONS
481	Van de vusse CSTR as a benchmark problem for nonlinear feedforward control design techniques. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1123-1128.	0.4	7
482	Optimal Periodic Control of a Drug Delivery System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 989-994.	0.4	4
483	Flachheitsbasierte Steuerung und Regelung eines Wämeleitungssystems (Flatness-based Feedforward) Tj ETQq	0 0 0 rgB 0.4	T /Overlock 10
484	Flachheitsbasierter Entwurf von linearen und nichtlinearen Vorsteuerungen (Flatness-based Design) Tj ETQq1 1 ().784314 0.4	l rgBT/Overlo
485	DELAYED GENERALIZED PREDICTIVE CONTROL OF BILATERAL TELEOPERATION SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 379-384.	0.4	4
486	FLATNESS BASED CONTROL OF LINEAR TIME VARYING BOND GRAPHS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 266-271.	0.4	4
487	ANALYSIS AND NONLINEAR CONTROL OF IMPLICIT DISCRETE-TIME DYNAMIC SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 145-150.	0.4	4
488	DYNAMIC FEEDBACK LINEARIZATION OF TWO INPUT NONLINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 447-452.	0.4	3
489	A Flatness Based Flight Guidance Control Using Neural Networks. , 0, , .		2
490	CONTROL DESIGN FOR DISTRIBUTED-PARAMETER SYSTEMS VIA PARAMETRIZATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 486-491.	0.4	1
491	MOTION PLANNING AND FEEDFORWARD CONTROL FOR DISTRIBUTED PARAMETER SYSTEMS UNDER INPUT CONSTRAINTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 934-939.	0.4	1
492	FLATNESS-BASED CONTROL OF A PARALLEL ROBOT ACTUATED BY PNEUMATIC MUSCLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 97-102.	0.4	3
493	FLATNESS FOR ACTUATORS MONITORING: APPLICATION IN PROCESS ENGINEERING DOMAIN. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 95-100.	0.4	0
494	ROBUST CONTROL OF PVTOL AIRCRAFT USING SATURATIONS FUNCTIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 360-365.	0.4	0
495	INTERVAL ANALYSIS AND NONLINEAR CONTROL OF WASTEWATER PLANTS WITH PARAMETER UNCERTAINTY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 55-60.	0.4	5
497	MODELING AND CONTROL OF PLATE THICKNESS IN HOT ROLLING MILLS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 13-18.	0.4	3
498	MODELLING AND CONTROL OF A VEHICLE WITH SINGLE-WHEEL CHASSIS ACTUATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 79-84.	0.4	18
499	ACTIVE VIBRATION REJECTION IN STEEL ROLLING MILLS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 1-6.	0.4	4

#	Article	IF	CITATIONS
500	CONTROL OF AN UNCERTAIN THREE-TANK SYSTEM VIA ON-LINE PARAMETER IDENTIFICATION AND FAULT DETECTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 251-256.	0.4	43
501	A new approach to inversion-based feedforward control design for nonlinear systems. Automatica, 2005, 41, 2033-2041.	3.0	140
502	The CyCab: a car-like robot navigating autonomously and safely among pedestrians. Robotics and Autonomous Systems, 2005, 50, 51-67.	3.0	40
503	Hierarchical trajectory refinement for a class of nonlinear systems. Automatica, 2005, 41, 701-708.	3.0	27
504	Identifiabilty of systems described by convolution equations. Automatica, 2005, 41, 505-512.	3.0	41
505	On controllability and trajectory tracking of a kinematic vehicle model. Automatica, 2005, 41, 889-896.	3.0	61
506	Application of Vibration Control in Steel Industries. , 2005, , 287-296.		1
507	Flatness-based optimal noncausal output transitions for constrained nonlinear systems: case study on an isothermal continuously stirred tank reactor. IET Control Theory and Applications, 2005, 152, 105-112.	1.7	0
508	Hybrid fuzzy control of the inverted pendulum via vertical forces. International Journal of Intelligent Systems, 2005, 20, 195-211.	3.3	34
509	Global robust controllability of the triangular integro-differential Volterra systems. Journal of Mathematical Analysis and Applications, 2005, 309, 743-760.	0.5	7
510	Formation Planning and Control of UGVs with Trailers. Autonomous Robots, 2005, 19, 257-270.	3.2	24
513	Influence of a Jerk Controlled Movement Law on the Vibratory Behaviour of High-Dynamics Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2005, 42, 275-293.	2.0	96
514	Flatness based control of oscillators. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2005, 85, 411-421.	0.9	64
516	Toward controlling dielectrophoresis. International Journal of Robust and Nonlinear Control, 2005, 15, 769-784.	2.1	15
518	Rekursiver Entwurf stabiler Regelkreise durch sukzessive Berýcksichtigung von Integratoren und quasi-statische Rýckführungen (Recursive Design of Stable Control Loops by Integrator Backstepping) Tj ETÇ)q0.4) 0 rgl	3 Ti. #Overlock
519	Infinit-dimensionale Regelung eines Brückenkranes mit schweren Ketten (Infinite-dimensional Control) Tj ETQq.	l 1.0.7843 0.4	314 rgBT /O
520	Non-linear control of a series direct current motor via flatness and decomposition in the bond graph domain. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2005, 219, 215-229.	0.7	6
521	Bond Graph and Flatness-Based Control of a Salient Permanent Magnetic Synchronous Motor. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2005, 219, 461-476.	0.7	6

#	Article	IF	CITATIONS
522	6 Structural Properties of Discrete and Continuous Linear Time-Varying Systems: A Unified Approach. Lecture Notes in Control and Information Sciences, 0, , 225-280.	0.6	4
523	Output feedback tracking: a separation principle approach. IEEE Transactions on Automatic Control, 2005, 50, 111-117.	3.6	15
524	Investigation of trajectory tracking control algorithms for autonomous mobile platforms: theory and simulation. , 0 , , .		7
525	Nonlinear Vehicle Dynamics Control - A Flatness Based Approach. , 0, , .		36
526	Smooth control of an X4 bidirectional rotors flying robot. , 2005, , .		14
527	Planning and Control of Mobile Robots in Image Space from Overhead Cameras. , 0, , .		12
528	Modeling and Nonlinear Control of an Electrohydraulic Closed-Center Power-Steering System. , 0, , .		5
529	Differential flatness-based trajectory planning for multiple unmanned aerial vehicles using mixed-integer linear programming. , 0, , .		7
530	LPV Modeling of Atmospheric Re-entry Demonstrator for Guidance Re-entry Problem. , 0, , .		2
531	A non-circular arc roll gap model for control applications in steel rolling mills. , 0, , .		1
532	On the blowing-up of stably free behaviours. , 0, , .		3
533	Control of a VTOL Aircraft: Motion Planning and Trajectory Tracking. , 0, , .		6
534	A Causal Discrete-time Estimator-Predictor for Unicycle Trajectory Tracking. , 0, , .		1
535	Quotients of Fully Nonlinear Control Systems. SIAM Journal on Control and Optimization, 2005, 43, 1844-1866.	1.1	33
536	A Global Non-linear Control Design for a PVTOL Vehicle with Aerodynamics. , 0, , .		12
537	Asymptotic Tracking for Nonlinear Systems using Fictitious Inputs. , 0, , .		5
538	Are nonlinear controllers really necessary in power electronics devices?., 2005,,.		8
539	Trajectory Generation and Tracking of a Mini-Rotorcraft. , 0, , .		16

#	Article	IF	Citations
540	Model-based Nonlinear Tracking Control of Pressure Swing Adsorption Plants. , 0, , 403-418.		13
541	Smooth and Analytic Normal and Canonical Forms for Strict Feedforward Systems. , 0, , .		9
542	Feedforward control of nonlinear systems using fictitious inputs. , 0, , .		5
543	Real-time Dynamic Optimization of Nonlinear Systems: A Flatness-based Approach., 0,,.		3
544	A globally convergent steering algorithm for regular nonholonomic systems. , 0, , .		5
545	Differential flatness of sliding mode nonlinear systems. , 0, , .		0
546	Interactive 3D Simulation of Flat Systems: The SpiderCrane as a Case Study., 0, , .		6
547	A combined first and second order sliding mode approach for position and pressure control of an electropneumatic system. , 0, , .		22
548	Linearization by Prolongations: New Bounds on the Number of Integrators. European Journal of Control, 2005, 11, 171-179.	1.6	6
549	Feedforward Control Design for Nonlinear Systems under Input Constraints. , 0, , 235-252.		20
550	New trajectory generation methods for nonholonomic mobile robots. , 2005, , .		8
551	On the differential flatness and control of electrostatically actuated MEMS. , 0, , .		9
552	Model structure simplification of Nonlinear Systems via immersion. IEEE Transactions on Automatic Control, 2005, 50, 607-618.	3.6	33
553	Feedforward and Feedback Tracking Control of Nonlinear Diffusionâ^'Convectionâ^'Reaction Systems Using Summability Methodsâ€. Industrial & Engineering Chemistry Research, 2005, 44, 2532-2548.	1.8	70
554	Differential Flatness and Flight Guidance: A Neural Adaptive Approach., 2005,,.		3
555	A framework for the stabilization of general nonholonomic systems with an application to the plate-ball mechanism., 2005, 21, 162-175.		62
556	Nonlinear control of mechanical systems with an unactuated cyclic variable. IEEE Transactions on Automatic Control, 2005, 50, 559-576.	3.6	169
557	Control structure synthesis for electromechanical systems based on the concept of inverse model using Causal Ordering Graph. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2

#	Article	IF	Citations
558	Application of a combined flatness- and passivity-based control concept to a crane with heavy chains and payload. , $2006, , .$		7
559	Flatness based control of the VIENNA-rectifier allowing for reactive power compensation. , 0, , .		5
560	Velocity Scheduling Controller for a Nonholonomic Mobile Robot. , 2006, , .		3
561	Decoupling of non-linear bond-graph models. , 2006, , .		0
562	Optimal nonlinear guidance with inner-loop feedback for hypersonic re-entry. , 2006, , .		8
563	Feedback Encoding for Efficient Symbolic Control of Dynamical Systems. IEEE Transactions on Automatic Control, 2006, 51, 987-1002.	3.6	19
564	Fault Detection in Flight Guidance Dynamics Based on Differential Flatness. , 2006, , .		0
565	Nonlinear model predictive and flatness-based two-degree-of-freedom control design: A comparative evaluation in view of industrial application., 2006,,.		0
566	Feedforward and Feedback Tracking Control of a 3DOF Helicopter Experiment under Input and Output Constraints. , 2006, , .		11
567	Flatness-based feedforward control design for flexible structures. , 2006, , .		2
568	Guaranteed Robust Tracking with Flatness Based Controllers Applying Interval Methods. , 2006, , .		5
569	Robust trajectory tracking of flat nonlinear systems. , 2006, , .		0
570	On Differential Flatness, Trajectory Planning, Observers, and Stabilization for DC–DC Converters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 2000-2010.	0.1	54
571	Synchronized Control for Circadian Rhythm Based on the Central Clock Model of Drosophila. , 2006, , .		1
572	Asymptotic Backstepping Stabilization of an Underactuated Surface Vessel. IEEE Transactions on Control Systems Technology, 2006, 14, 1150-1157.	3.2	138
573	Modeling, Motion Planning and Control of the Drones with Revolving Aerofoils: an Outline of the XSF Project., 2006,, 165-177.		1
574	Systematic control of an electropneumatic system: integrator backstepping and sliding mode control. IEEE Transactions on Control Systems Technology, 2006, 14, 905-913.	3.2	59
575	A New Nonlinear Controller Design Method Based on Control Lyapunov Function. , 2006, , .		2

#	Article	IF	Citations
576	Trajectory Tracking For Boom Cranes Using A Flatness Based Approach., 2006,,.		8
577	Optimal path and tracking control of an autonomous VTOL aircraft. , 2006, , .		2
578	Design of a differentially flat open-chain space robot with arbitrarily oriented joints and two momentum wheels at the base. , 0, , .		2
579	Integral sliding mode control for trajectory tracking of a unicycle type mobile robot. Integrated Computer-Aided Engineering, 2006, 13, 277-288.	2.5	35
580	Planning Under Differential Constraints., 0,, 587-589.		0
581	Diesel Boost Pressure Control using Flatness-Based Internal Model Control. , 0, , .		10
582	System Theory and Analytical Techniques. , 0, , 712-766.		1
584	Zur zeitdiskreten Implementierung nichtlinearer Regelgesetze (On the Discrete-time Implementation of) Tj ETQq1	1.0,7843 0.4	14 rgBT /O\
585	ON THE GPI-PWM CONTROL OF A CLASS OF SWITCHED FRACTIONAL ORDER SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 161-166.	0.4	2
586	DIFFERENTIAL FLATNESS AND FAULT DETECTION IN FLIGHT GUIDANCE DYNAMICS1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 186-191.	0.4	0
587	COMPLEX CONTINUOUS NONLINEAR SYSTEMS: THEIR BLACK BOX IDENTIFICATION AND THEIR CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 416-421.	0.4	22
588	FLATNESS BASED CONTROL OF A BUCK-CONVERTER DRIVEN DC MOTOR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 36-41.	0.4	24
589	FLATNESS BASED CONTROL OF A DUAL COIL SOLENOID VALVE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 48-54.	0.4	5
590	INVERSION–BASED TRANSIENT SHAPING OF A PIEZO–ACTUATED PLATE: MOTION PLANNING AND FEEDFORWARD CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 169-174.	0.4	4
591	OPTIMIZED FORCE ALLOCATION: A General Approach to Control and to Investigate the Motion of Over-Actuated Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 366-371.	0.4	23
592	A computational mechatronics approach for the analysis, synthesis and design of a simple active biped robot: Theory and experiments. Applied Bionics and Biomechanics, 2006, 3, 121-130.	0.5	О
595	An infinite-dimensional control concept for piezoelectric structures with complex hysteresis. Structural Control and Health Monitoring, 2006, 13, 1099-1119.	1.9	38
596	Control of batch crystallization—A system inversion approach. Chemical Engineering and Processing: Process Intensification, 2006, 45, 874-885.	1.8	39

#	Article	IF	Citations
597	Real-time dynamic optimization of nonlinear systems: A flatness-based approach. Computers and Chemical Engineering, 2006, 30, 709-721.	2.0	14
598	Issues in the real-time computation of optimal control. Mathematical and Computer Modelling, 2006, 43, 1172-1188.	2.0	75
599	Adaptive nonlinear velocity controller for a flexible mechanism of a linear motor. Mechatronics, 2006, 16, 279-290.	2.0	23
600	Robust motion tracking control of partially nonholonomic mechanical systems. Robotics and Autonomous Systems, 2006, 54, 332-341.	3.0	15
601	Local factorization of trajectory lifting morphisms for single-input affine control systems. Systems and Control Letters, 2006, 55, 761-769.	1.3	1
602	Nonlinear Trajectory Control of a High-Speed Linear Axis Driven by Pneumatic Muscle Actuators. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
603	Flatness Conservation in the n-trailer System Equipped with a Sliding Kingpin Mechanism. Journal of Intelligent and Robotic Systems: Theory and Applications, 2006, 46, 151-162.	2.0	20
604	Dynamics of a six degrees-of-freedom parallel robot actuated by three two-wheel carts. Multibody System Dynamics, 2006, 16, 105-121.	1.7	10
605	Dynamics and flatness-based control of a kinematically undetermined cable suspension manipulator. Multibody System Dynamics, 2006, 16, 155-177.	1.7	81
606	Controllability and Extendibility of Continuous Multi-dimensional Behaviors. Multidimensional Systems and Signal Processing, 2006, 17, 97-106.	1.7	3
607	Discrete algebraic estimator design for non-linear Liouvillian systems with sampled output: Application to a class of stirred bioreactor. Chemical Engineering Journal, 2006, 118, 23-28.	6.6	1
608	Sampled-data Control of a Class of Nonlinear Flat Systems With Application to Unicycle Trajectory Tracking. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 722-728.	0.9	11
609	Controller Design for a Class of Nonregular-feedback-linearizable Systems. , 2006, , .		0
610	Flatness-based feedforward control for parabolic distributed parameter systems with distributed control. International Journal of Control, 2006, 79, 677-687.	1.2	17
611	Inversionsbasierter Vorsteuerungsentwurf mit Ein- und AusgangsbeschrÄ r kungen (Inversion-Based) Tj ETQq0 0 0	O rgBT /Ove 0.4	erlock 10 Tf 5 9
612	Feedforward and Feedback Tracking Control of Diffusion-Convection-Reaction Systems using Summability Methods. Automatisierungstechnik, 2006, 54, 47-48.	0.4	2
613	Flachheitsbasierte Steuerstrategien fýr Batch-Reaktoren (Flatness based Feedforward Control) Tj ETQq0 0 0 rg	BT/Qverlc	ock 10 Tf 50]
614	Flatness-Based Tracking Control for Parabolic Distributed-Parameter Systems with Boundary Input (Flachheitsbasierte Folgeregelung für parabolische verteilt-parametrische Systeme mit Randeingriff). Automatisierungstechnik, 2006, 54, 372-384.	0.4	2

#	ARTICLE	CITATIONS
615	Regelung adaptronischer Systeme, Teil II: Elektrorheologische Aktoren (Control of Adaptronic) Tj ETQq0 0 0 rgBT /Qyerlo	ock 18 Tf 50 742
616	Nonlinear control of an active magnetic bearing with bias currents: experimental study. , 2006, , .	4
617	A flatness-based approach to internal model control. , 2006, , .	12
618	Flatness-Based Control of Electrostatically Actuated MEMS With Application to Adaptive Optics: A Simulation Study. Journal of Microelectromechanical Systems, 2006, 15, 1165-1174.	62
619	Synthetic-Output-Based Output Tracking for Nonlinear Non-Minimum-Phase Systems. , 2006, , .	0
620	Flatness-based Feedforward and Feedback Control for Heat and Mass Transfer Processes. , 2006, , .	5
621	Higher order sliding mode control of a stepper motor. , 2006, , .	8
622	Symbolic control for underactuated differentially flat systems. , 0, , .	3
623	Speed-sensorless tracking control of a DC-motor via a double Buck-converter. , 2006, , .	14
624	Flatness based control of traffic flow. , 2006, , .	11
625	Trajectory generation for differentially flat systems via NURBS basis functions with obstacle avoidance. , 2006, , .	20
626	Flatness-based control of a simplified wastewater treatment plant. , 2006, , .	O
627	Experimental Results for a Nonholonomic Mobile Robot Controller Enforcing Linear Equivalence Asymptotically. , 2006, , .	0
628	Nonlinear tracking control of a dc motor via a boost-converter using linear dynamic output feedback. , 2006, , .	8
629	Nonlinear Trajectory Generation Using Global Local Approximations. , 2006, , .	8
630	Complete coverage control for nonholonomic mobile robots in dynamic environments. , 0, , .	20
631	Trajectory generation in guided spaces using NTG algorithm and artificial neural networks. , 2006, , .	5
632	The Neural Network Adaptive Control for the Nonlinear Load of the Permanant Magnet Synchronous Motor. , 2006, , .	O

#	Article	IF	CITATIONS
634	Flatness-Based Control of an Induction Machine Fed via Voltage Source Inverter - Concept, Control Design and Performance Analysis. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	25
635	Flatness-based tracking of an electromechanical WT actuator with magnetic flux sensor. , 2006, , .		4
636	An algebraic perspective to single-transponder underwater navigation. , 2006, , .		15
637	Nonlinear trajectory following control for automatic steering of a collision avoiding vehicle. , 2006, , .		30
638	On the GPI-Sliding Mode control of switched fractional order systems. , 0, , .		6
639	Modelling and control of an electrostatically actuated torsional micromirror. Journal of Micromechanics and Microengineering, 2006, 16, 2044-2052.	1.5	27
640	Real-Time Dynamic Optimization of Controllable Linear Systems. Journal of Guidance, Control, and Dynamics, 2006, 29, 929-935.	1.6	3
641	Explicit Symmetries of Strict Feedforward Control Systems. , 2006, , .		1
642	Tracking control of the orbitally flat kinematic car with a new time-scaling input. , 2007, , .		13
643	An algebraic framework for the design of nonlinear observers with unknown inputs. , 2007, , .		54
644	Design of Algorithms for Satellite Slew Manoeuver by Flatness and Collocation. Proceedings of the American Control Conference, 2007, , .	0.0	7
645	A numerical analysis of the algebraic derivative method with application to magnetic bearings. , 2007, , .		2
646	On-line time-scaling control of a kinematic car with one input. , 2007, , .		4
647	Adaptive Control of Flat MIMO Nonlinear Systems With Additive Disturbance. Proceedings of the American Control Conference, 2007, , .	0.0	4
648	Flachheitsbasierte Steuerung und Regelung f $\tilde{A}^{1}/4$ r parabolische Systeme mit verteilten Parametern und gleichverteiltem Eingriff (Flatness-based Feedforward and Feedback Control for Parabolic) Tj ETQq0 0 0 rgBT /Ove 55, 615-623.	erlock 10 T	f 50 182 Td
649	Nichtlineare Regelung von verstellbaren eigenversorgten Axialkolbenpumpen (Nonlinear Control of) Tj ETQq1 1 0	.784314 r 0.4	gBॄT /Overl <mark>oc</mark>
650	Flatness-Based Feedback Linearization of A Synchronous Machine Model With Static Excitation And Fast Turbine Valving. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	12
651	Hysteresis and Creep Compensation for Piezoelectric Actuators Applied to the Feedforward Control Command of Flexible Structures., 2007,, 1923.		0

#	Article	IF	CITATIONS
652	Nonlinear predictive control for bilateral scaled teleoperation systems using a $\$\#x03C0$; flat output: Theory and experiments., 2007,,.		0
653	Optimal Trajectory Tracking for Differentially Flat Systems with Singularities. , 2007, , .		1
654	Global stabilization of the MIMO triangular systems in the singular case. , 2007, , .		0
655	Flatness-Based Control of a Mechatronic Weed Killer Autonomous Robot. , 2007, , .		2
656	A revised look at numerical differentiation with an application to nonlinear feedback control. , 2007, , .		109
657	A comparison between the message embedded cryptosystem and the self-synchronous stream cipher Mosquito., 2007,,.		0
658	Flatness-Based Extremum-Seeking Control Over Periodic Orbits. IEEE Transactions on Automatic Control, 2007, 52, 2005-2012.	3.6	35
659	Differential Flatness and Fault Detection in Flight Guidance Dynamics1., 2007, , 186-191.		O
660	Flatness and Monge parameterization of two-input systems, control-affine with 4 states or general with 3 states. ESAIM - Control, Optimisation and Calculus of Variations, 2007, 13, 237-264.	0.7	4
661	Flatness Control of a Fractional Thermal System. , 2007, , 493-509.		5
662	GENERIC 4D FLIGHT GUIDANCE BASED ON DIFFERENTIAL FLATNESS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 353-358.	0.4	0
663	MOTION PLANNING AND OPTIMAL CONTROL OF AN AUTONOMOUS VTOL AIRCRAFT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 13-18.	0.4	0
664	A CONVEX APPROACH TO THE DESIGN OF OPTIMAL TRAJECTORIES FOR SATELLITE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 153-158.	0.4	0
665	ON THE DESIGN OF A FLATNESS-BASED GUIDANCE ALGORITHM FOR THE TERMINAL AREA ENERGY MANAGEMENT OF A WINGED-BODY VEHICLE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 563-568.	0.4	4
666	IMPROVING CONVERGENCE OF PERTURBATION-BASED EXTREMUM SEEKING METHODS FOR A CLASS OF DIFFERENTIALLY FLAT SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 270-275.	0.4	2
667	MOTION PLANNING FOR THE HEAT EQUATION WITH RADIATION BOUNDARY CONDITIONS BASED ON FINITE DIFFERENCE SEMI-DISCRETIZATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 306-311.	0.4	2
668	GEOMETRIC CONSTRUCTION OF PERIODIC TRAJECTORIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 597-602.	0.4	0
669	CONSTRUCTION OF FLAT OUTPUTS BY REDUCTION AND ELIMINATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 693-698.	0.4	23

#	Article	IF	CITATIONS
670	GEOMETRIC ANALYSIS OF TIME VARIANT HAMILTONIAN CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 864-869.	0.4	3
671	ROBUST FLATNESS BASED CONTROLLER DESIGN USING INTERVAL METHODS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 876-881.	0.4	4
672	A FLAT MODEL PREDICTIVE CONTROLLER FOR TRAJECTORY TRACKING IN IMAGE BASED VISUAL SERVOING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 993-998.	0.4	5
673	FLATNESS-BASED FAULT TOLERANT CONTROL OF A NONLINEAR MIMO SYSTEM USING ALGEBRAIC DERIVATIVE ESTIMATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 350-355.	0.4	12
674	A BOND GRAPH APPROACH FOR DIRECT CHARACTERIZATION OF INVARIANT ZEROS OF LINEAR TIME VARYING SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 542-547.	0.4	1
675	TRACKING CONTROL OF THE ANGULAR VELOCITY OF A DC-MOTOR VIA A BOOST-CONVERTER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 1143-1148.	0.4	5
676	Robust posibilistic control for nonlinear flat systems. Journal of Biotechnology, 2007, 131, S105.	1.9	0
677	Mathematical Modeling and Nonlinear Controller Design for a Novel Electrohydraulic Power-Steering System. IEEE/ASME Transactions on Mechatronics, 2007, 12, 85-97.	3.7	56
678	Motion planning and control of gantry cranes in cluttered work environment. IET Control Theory and Applications, 2007, 1, 1370-1379.	1.2	63
679	Finite-time stability of cascaded time-varying systems. International Journal of Control, 2007, 80, 646-657.	1.2	210
680	Assessment and Future Directions of Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2007, , .	0.6	86
681	Dynamic feedback linearization based control synthesis of the turbocharged Diesel engine. Proceedings of the American Control Conference, 2007, , .	0.0	36
682	Fault Detection Using Differential Flatness in Flight Guidance Systems., 2007,,.		0
683	Global Trajectory Generation for Nonholonomic Robots in Dynamic Environments. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	18
684	Flatness-Based Feedback Control of an Automotive Solenoid Valve. IEEE Transactions on Control Systems Technology, 2007, 15, 394-401.	3.2	57
685	Discrete Signal Processing with Flat System Models. , 2007, , .		1
686	Model Based Control of Turbochargers: Application to a Diesel HCCI Engine. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	11
687	Flatness-based control of an electrostatic torsional micro-mirror with voltage feedback. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	8

#	Article	IF	CITATIONS
688	Experimental Motion Planning and Control for an Autonomous Nonholonomic Mobile Robot. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	17
689	The Behavioral Approach to Open and Interconnected Systems. IEEE Control Systems, 2007, 27, 46-99.	1.0	256
690	Robust analysis of flatness based control using interval methods. International Journal of Control, 2007, 80, 816-823.	1.2	12
691	UAV as a Reliable Wingman: A Flight Demonstration. IEEE Transactions on Control Systems Technology, 2007, 15, 680-688.	3.2	16
692	Continuous Curvature Trajectory Design and Feedforward Control for Parking a Car. IEEE Transactions on Control Systems Technology, 2007, 15, 541-553.	3.2	77
693	Synchronization control for circadian rhythm of drosophila with flatness-based adaptive control., 2007,,.		0
694	Optimal Rough Terrain Trajectory Generation for Wheeled Mobile Robots. International Journal of Robotics Research, 2007, 26, 141-166.	5.8	300
695	Globally convergent real-time differentiation via second order sliding modes. International Journal of Systems Science, 2007, 38, 833-844.	3.7	34
696	Control of a cylindrical PVTOL vehicle: global non-linear velocity tracking control considering aerodynamics. International Journal of Control, 2007, 80, 1595-1606.	1.2	2
697	Parametrizations of a two-level quantum control system. , 2007, , .		0
698	Trajectory Tracking for Boom Cranes Based on Nonlinear Control and Optimal Trajectory Generation. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	17
699	A Nonlinear Control Strategy for Boom Cranes in Radial Direction. Proceedings of the American Control Conference, 2007, , .	0.0	7
700	Flatness-Based Vehicle Steering Control Strategy With SDRE Feedback Gains Tuned Via a Sensitivity Approach. IEEE Transactions on Control Systems Technology, 2007, 15, 554-565.	3.2	107
701	Precision Tracking of a Rotating Shaft With Magnetic Bearings by Nonlinear Decoupled Disturbance Observers. IEEE Transactions on Control Systems Technology, 2007, 15, 1112-1121.	3.2	45
702	Neural Inversion of Flight Guidance Dynamics. , 2007, , .		2
703	Flatness-based two-degree-of-freedom control of a pumped storage power station. , 2007, , .		7
704	Feedforward control design for nonlinear stable minimum phase systems using a new state space model structure., 2007,,.		0
705	Point-to-point control of a gantry crane: A combined flatness and IDA-PBC strategy. , 2007, , .		4

#	ARTICLE	IF	CITATIONS
706	A combination of feedforward and feedback for the control of the nonlinear benchmark Inertia Wheel Pendulum. , 2007, , .		4
707	Output feedback controller for a class of nonlinear systems. , 2007, , .		8
708	Experimental results on motion planning and tracking control for a piezoactuated flexible trimorph bender., 2007,,.		0
709	Decentralized robust control for multi-vehicle navigation. , 2007, , .		0
710	Experimental comparison of nonlinear tracking controllers for active magnetic bearings. Control Engineering Practice, 2007, 15, 95-107.	3.2	16
711	Comparative evaluation of nonlinear model predictive and flatness-based two-degree-of-freedom control design in view of industrial application. Journal of Process Control, 2007, 17, 129-141.	1.7	16
712	Computation of bases of free modules over the Weyl algebras. Journal of Symbolic Computation, 2007, 42, 1113-1141.	0.5	22
713	Output feedback exponential stabilization of uncertain chained systems. Journal of the Franklin Institute, 2007, 344, 36-57.	1.9	108
714	Feedforward tracking control for non-uniform Timoshenko beam models: combining differential flatness, modal analysis, and FEM. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2007, 87, 37-58.	0.9	17
715	Control of underactuated mechanical systems with servo-constraints. Nonlinear Dynamics, 2007, 50, 781-791.	2.7	76
716	Observer-based second order sliding mode control laws for stepper motors. Control Engineering Practice, 2008, 16, 429-443.	3.2	73
717	Iterative approximation of limit cycles for a class of Abel equations. Physica D: Nonlinear Phenomena, 2008, 237, 3159-3164.	1.3	27
719	Realâ€time Dynamic Optimization of Nonâ€linear Batch Systems. Canadian Journal of Chemical Engineering, 2006, 84, 338-348.	0.9	5
720	Onâ€Line Feedback Control for Optimal Periodic Control Problems. Canadian Journal of Chemical Engineering, 2007, 85, 479-489.	0.9	11
721	Nonlinear Position Control of a Scissorâ€like Kinematics with Elastic Bodies. GAMM Mitteilungen, 2008, 31, 7-26.	2.7	0
722	A new look at optimal control of a batch crystallizer. AICHE Journal, 2008, 54, 3188-3206.	1.8	25
723	Global properties of the triangular systems in the singular case. Journal of Mathematical Analysis and Applications, 2008, 342, 1426-1439.	0.5	30
724	Linearization of discrete-time systems by exogenous dynamic feedback. Automatica, 2008, 44, 1707-1717.	3.0	22

#	Article	IF	CITATIONS
725	Optimal periodic control of a drug delivery system. Computers and Chemical Engineering, 2008, 32, 2256-2262.	2.0	16
726	Motion planning for experimental airpath control of a diesel homogeneous charge-compression ignition engine. Control Engineering Practice, 2008, 16, 1081-1091.	3.2	63
727	Tracking control of nonlinear lumped mechanical continuous-time systems: A model-based iterative learning approach. Mechanical Systems and Signal Processing, 2008, 22, 1896-1916.	4.4	23
728	LANDING AN UNMANNED AIR VEHICLE: VISION BASED MOTION ESTIMATION AND NONLINEAR CONTROL. Asian Journal of Control, 1999, 1, 128-145.	1.9	200
729	STEERING A MOBILE ROBOT: SELECTION OF A VELOCITY PROFILE SATISFYING DYNAMICAL CONSTRAINTS. Asian Journal of Control, 2000, 2, 219-229.	1.9	4
730	A PASSIVITY PLUS FLATNESS CONTROLLER FOR THE PERMANENT MAGNET STEPPER MOTOR. Asian Journal of Control, 2000, 2, 1-9.	1.9	27
731	SLIDING MODES, Î"-MODULATORS, AND GENERALIZED PROPORTIONAL INTEGRAL CONTROL OF LINEAR SYSTEMS. Asian Journal of Control, 2008, 5, 467-475.	1.9	23
732	Flatness-based tracking control of a piezoactuated Euler–Bernoulli beam with non-collocated output feedback: theory and experimentsâ€. International Journal of Control, 2008, 81, 475-493.	1.2	49
733	Motion Control of Wheeled Mobile Robots. , 2008, , 799-826.		133
734	Motion Planning and Obstacle Avoidance. , 2008, , 827-852.		57
735	Sliding-Mode Control of a High-Speed Linear Axis Driven by Pneumatic Muscle Actuators. IEEE Transactions on Industrial Electronics, 2008, 55, 3855-3864.	5.2	128
736	Actuator Fault Tolerant Control Design Based on a Reconfigurable Reference Input. International Journal of Applied Mathematics and Computer Science, 2008, 18, 553-560.	1.5	72
737	On the formal characterization of reduced-order flat outputs over an ore algebra. , 2008, , .		0
738	Modern Sliding Mode Control Theory. Lecture Notes in Control and Information Sciences, 2008, , .	0.6	118
739	Precision Guidance of Agricultural Tractors for Autonomous Farming. , 2008, , .		24
740	Dubins Trajectory Tracking using Commercial Off-the-Shelf Autopilots. , 2008, , .		16
741	Shaping State-Dependent Convergence Rates in Nonlinear Control System Design. , 2008, , .		5
742	A differential flatness approach for rotorcraft fault detection. , 2008, , .		7

#	Article	IF	CITATIONS
743	Modeling and control of VTOL UAVs interacting with the environment. , 2008, , .		28
744	Intelligent PID controllers. , 2008, , .		117
745	Event-based two degree-of-freedom control for micro-/nanoscale systems based on differential flatness. , 2008, , .		0
746	Classical electrical engineering questions in the light of Fliess's differential algebraic framework of non-linear control systems. International Journal of Control, 2008, 81, 382-397.	1.2	2
747	On the relations between different flatness based design methods for tracking controllers. , 2008, , .		4
748	Cartesian Impedance Control of Redundant and Flexible-Joint Robots. Springer Tracts in Advanced Robotics, 2008, , .	0.3	45
750	Flatness-based two-degree-of-freedom control of industrial semi-batch reactors using a new observation model for an extended Kalman filter approach. International Journal of Control, 2008, 81, 428-438.	1.2	20
751	Navigation of Multiple Kinematically Constrained Robots. , 2008, 24, 221-231.		67
752	Nonlinear Blind Parameter Estimation. IEEE Transactions on Automatic Control, 2008, 53, 834-838.	3.6	3
7 53	Optimal motion planning for differentially flat underactuated mechanical systems. , 2008, , .		1
754	A Generalized PI Sliding Mode and PWM Control of Switched Fractional Systems. , 2008, , 201-221.		8
755	A connection between chaotic and conventional cryptography. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 1695-1703.	3.5	57
756	Algebraic Structures in Nonlinear Systems over Rings Obtained by Immersion. SIAM Journal on Control and Optimization, 2008, 47, 1961-1976.	1.1	6
757	Model inversion of boundary controlled parabolic partial differential equations using summability methods. Mathematical and Computer Modelling of Dynamical Systems, 2008, 14, 213-230.	1.4	13
758	Nonlinear modelling and flatness-based control for electromagnetic reluctance force actuator. , 2008, , .		2
759	Flatness-Based Tracking of an Electromechanical Variable Valve Timing Actuator With Disturbance Observer Feedforward Compensation. IEEE Transactions on Control Systems Technology, 2008, 16, 652-663.	3.2	70
760	Continuous-time non-linear flatness-based predictive control: an exact feedforward linearisation setting with an induction drive example. International Journal of Control, 2008, 81, 1645-1663.	1.2	30
761	Towards context aware tracking: a flatness based automotive oriented scheme with elastic execution time and sheaf determination. International Journal of Control, 2008, 81, 398-406.	1.2	1

#	Article	IF	CITATIONS
762	Flatness-based voltage-oriented control of three-phase PWM rectifiers. , 2008, , .		17
763	Differentially Flat Designs of Underactuated Open-Chain Planar Robots. IEEE Transactions on Robotics, 2008, 24, 1445-1451.	7.3	41
764	Conditions for the existence of a flat input. International Journal of Control, 2008, 81, 439-443.	1.2	36
765	Flatness-Based Control of a Single Qubit Gate. IEEE Transactions on Automatic Control, 2008, 53, 775-779.	3.6	16
766	Flatness principle extension to linear fractional MIMO systems: Thermal application. , 2008, , .		3
767	Feedforward control design for finite-time transition problems of non-linear MIMO systems under input constraints. International Journal of Control, 2008, 81, 417-427.	1.2	13
768	Fuel cell characteristic observation to control an electrical multi-source/multi-load hybrid system. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	1
769	Inversion in indirect optimal control of multivariable systems. ESAIM - Control, Optimisation and Calculus of Variations, 2008, 14, 294-317.	0.7	9
770	Flatness, Backstepping and Sliding Mode Controllers for Nonlinear Systems. , 2008, , 269-290.		3
771	Data-based feed-forward control in MIMO motion systems. , 2008, , .		17
772	Flatness-based online controller reconfiguration. , 2008, , .		5
773	Inverse versus direct kinematics model based on flatness and escape lanes to control CyCab mobile robot. , 2008, , .		8
774	Feed-Forward river flow control using differential flatness. , 2008, , .		3
775	Motion planning and open loop control design for linear distributed parameter systems with lumped controls. International Journal of Control, 2008, 81, 457-474.	1.2	38
776	On-line path planning for an autonomous vehicle in an obstacle filled environment. , 2008, , .		5
777	Design of periodic control systems for circadian rhythm of mammals. , 2008, , .		0
778	Feedforward control design for the wave equation with nonlinear boundary conditions modelling a torsional rod., 2008,,.		1
779	Framework for Low-Observable Trajectory Generation in Presence of Multiple Radars. Journal of Guidance, Control, and Dynamics, 2008, 31, 1740-1749.	1.6	33

#	Article	IF	CITATIONS
780	Neural Guidance Control for Aircraft Based on Differential Flatness. Journal of Guidance, Control, and Dynamics, 2008, 31, 892-898.	1.6	9
781	Constructive Methods for Initialization and Handling Mixed State-Input Constraints in Optimal Control. Journal of Guidance, Control, and Dynamics, 2008, 31, 1334-1343.	1.6	44
782	Modell-prÃ d iktive Trajektoriengenerierung fýr flachheitsbasierte Folgeregelungen am Beispiel eines Hafenmobilkrans (Model-predictive Trajectory Generation for Flatness-based Nonlinear Tracking) Tj ETQq0 0 0 rg	BTø Ø verlo	ck410 Tf 50 6
783	Windup in Control: Its Effects and Their Prevention (by Hippe, P.; 2006). IEEE Transactions on Automatic Control, 2008, 53, 1976-1977.	3.6	8
784	European Robotics Symposium 2008. Springer Tracts in Advanced Robotics, 2008, , .	0.3	33
785	Towards a computer algebraic algorithm for flat output determination. , 2008, , .		13
786	Trajectory Tracking in a Mobile Robot without Using Velocity Measurements for Control of Wheels. IEEE Latin America Transactions, 2008, 6, 598-607.	1,2	31
787	Differential flatness applied to vehicle trajectory tracking. , 2008, , .		4
788	Invertibility, flatness and identifiability of switched linear dynamical systems: An application to secure communications., 2008,,.		1
789	Flatness Based Control of Traffic Flow for Coordination of Ramp Metering and Variable Speed Limits. , 2008, , .		0
790	Advanced Programmed Motion Tracking Control of Nonholonomic Mechanical Systems. IEEE Transactions on Robotics, 2008, 24, 1315-1328.	7.3	30
791	Flatness and quasi-static state feedback in non-linear delay systems. International Journal of Control, 2008, 81, 445-456.	1.2	5
792	On-line moving-obstacle avoidance using piecewise Bezier curves with unknown obstacle trajectory. , 2008, , .		10
793	Design of differentially flat planar space robots and their planning and control. International Journal of Control, 2008, 81, 407-416.	1.2	2
794	Improving the Performance of Sampling-Based Motion Planning With Symmetry-Based Gap Reduction. IEEE Transactions on Robotics, 2008, 24, 488-494.	7.3	27
795	Control of the Toycopter Using a Flat Approximation. IEEE Transactions on Control Systems Technology, 2008, 16, 882-896.	3.2	12
796	Flatness based loss optimization for a doubly fed induction generator system. , 2008, , .		2
797	Model-Free Control of Shape Memory Alloys Antagonistic Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4458-4463.	0.4	8

#	Article	IF	Citations
798	Kinematic Control of Nonholonomic Wheeled Mobile Manipulator: A Differential Flatness Approach. , 2008, , .		5
799	Generalized Proportional Integral Control for a Robot with Flexible Finger Gripper. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6769-6775.	0.4	3
800	Passivity Based Control and Time Optimal Trajectory Planning of a Single Mast Stacker Crane. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 875-880.	0.4	23
801	Motion Planning and Control of a Tractor With a Steerable Trailer Using Differential Flatness. Journal of Computational and Nonlinear Dynamics, 2008, 3, .	0.7	20
802	Jet-Scheduling Control for SpiderCrane: Experimental Results. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3148-3154.	0.4	4
803	Event-based Feedforward Control of a Drug Delivery System for Diabetes Care. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5393-5398.	0.4	0
804	Two-Degree-of-Freedom Tracking Control of Piezoelectric Tube Scanners in Two-Dimensional Scanning Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8257-8262.	0.4	0
805	Trajectory Planning for Flatness-based two-degree-of-freedom control of a pumped storage power station. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11080-11085.	0.4	1
806	Real-time visual predictive controller for image-based trajectory tracking of a mobile robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11244-11249.	0.4	22
807	Tracking Control for Port-Hamiltonian Systems using Feedforward and Feedback Control and a State Observer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1833-1838.	0.4	6
808	Fast Parametric Estimation for Macroscopic Traffic Flow Model. IFAC Postprint Volumes IPPV International Federation of Automatic Control, 2008, 41, 13040-13045.	0.4	5
809	Flatness-based pre-compensation of laser diodes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1438-1441.	0.4	0
810	Stabilization of a 2D-SpiderCrane Mechanism using Damping Assignment Passivity-based Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3155-3160.	0.4	11
811	Point-to-point control and trajectory tracking in wheeled mobile robots: some further results and applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9546-9551.	0.4	8
812	An Effective Algorithm for Analytical Computation of Flat Outputs over the Weyl Algebra. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11250-11256.	0.4	0
813	NCGPC with dynamic extension applied to a Turbocharged Diesel Engine. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12065-12070.	0.4	8
814	Sliding Mode Control and Flatness-Based Concept for Real-Time Ramp Metering. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13046-13051.	0.4	4
815	Improving Trajectory Constraints Processing in some Optimal Control Algorithms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14289-14294.	0.4	0

#	Article	IF	CITATIONS
816	A continuation approach to state and adjoint calculation in optimal control applied to the reentry problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14307-14312.	0.4	17
817	Non-linear estimation is easy. International Journal of Modelling, Identification and Control, 2008, 4, 12.	0.2	280
818	Global Airpath Control for a Turbocharged Diesel HCCI Engine. Oil and Gas Science and Technology, 2008, 63, 553-561.	1.4	5
819	A new path planner based on flatness approach application to an atmospheric reentry mission. , 2009, , .		1
822	Feedforward/feedback control of a magnetic levitation apparatus. , 2009, , .		0
823	Tracking control of a distributed-parameter piezoelectric stack actuator., 2009,,.		0
824	Feedforward control of a parallel hybrid launch clutch. , 2009, , .		3
825	Design of a semi-autonomous parking assist system. , 2009, , .		5
826	Real-time trajectory optimization under input constraints for a flatness-controlled laboratory helicopter. , 2009, , .		4
827	A geometrical characterization of a class of 0-flat affine dynamical systems. , 2009, , .		1
828	Model predictive path-following for constrained nonlinear systems. , 2009, , .		74
829	Design and experimental validation of a nonlinear tracking control law for an electrostatic micromirror., 2009,,.		2
830	A global steering method for general dynamical nonholonomic systems. , 2009, , .		1
831	Adaptive friction compensation based on the LuGre model for a pneumatic rodless cylinder., 2009,,.		22
832	An Exact Differential Flatness Control for a Non Minimum Phase Model of an Inverted Pendulum. , 2009, , .		3
833	Motion analysis of a spherical mobile robot. Robotica, 2009, 27, 343-353.	1.3	78
834	Vibration damping for a hydraulic driven luffing cylinder at a boom crane using feedforward control. , 2009, , .		2
835	Motion Planning in Obstacle Rich Environments. Journal of Aerospace Computing, Information, and Communication, 2009, 6, 433-450.	0.8	6

#	Article	IF	CITATIONS
836	Cooperative Control of Dynamical Systems. , 2009, , .		16
837	Performance-based reactive navigation for non-holonomic mobile robots. Robotica, 2009, 27, 281-290.	1.3	42
838	Predictive control of the permanent magnet synchronous motor based on the feedback linearization. , 2009, , .		3
839	A flatness based backstepping controller design with sliding mode for asynchronous machines. , 2009, , .		1
840	Flatness based switching frequency estimation of sliding mode controllers for single-input systems. , 2009, , .		1
841	Robust flatness-based control of an AGV under varying load and friction conditions. , 2009, , .		8
842	Dynamic feedback linearization applied to asymptotic tracking: Generalization about the turbocharged diesel engine outputs choice., 2009,,.		24
843	Dirichlet problems for some Hamilton-Jacobi equations with inequality constraints., 2009,,.		1
844	Modeling and control of two-wheeled vehicles using active caster wheels., 2009,,.		3
845	Gap-singular systems: definition and consequences in trajectory planning. International Journal of Control, 2009, 82, 837-848.	1.2	1
846	Analysis and Simulation of Optimal Vibration Attenuation for Underactuated Mechanical Systems. AIAA Journal, 2009, 47, 2821-2835.	1.5	1
847	Engineless Unmanned Aerial Vehicle Propulsion by Dynamic Soaring. Journal of Guidance, Control, and Dynamics, 2009, 32, 1446-1457.	1.6	96
848	Trajectory Shaping of Projectile Through Cross-Entropy-Minimization-Based Search. Journal of Guidance, Control, and Dynamics, 2009, 32, 300-304.	1.6	1
849	A Flatness-Based Iterative Method for Reference Trajectory Generation in Constrained NMPC. Lecture Notes in Control and Information Sciences, 2009, , 325-333.	0.6	26
850	Flachheitsbasierte Steuerung und Beobachtung von Transportprozessen mit verteiltem EingriffFlatness-based Control and Observer Design for Transport Processes with Distributed Control. Automatisierungstechnik, 2009, 57, 552-563.	0.4	3
851	From System Identification to Path Planning Using Fractional Approach: A Thermal Application Example. , 2009, , .		3
852	Robust stop-and-go control strategy: an algebraic approach for non-linear estimation and control. International Journal of Vehicle Autonomous Systems, 2009, 7, 270.	0.2	32
853	Trajectory Tracking Control of Robot Manipulator Using Flatness Based Approach. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
854	Ein prÃ d iktiver Ansatz zur Lösung nichtlinearer Pfadverfolgungsprobleme unter BeschrÃ d kungenA Predictive Solution to Nonlinear Path-Following Problems Subject to Constraints. Automatisierungstechnik, 2009, 57, 386-394.	0.4	3
855	Flatness-Based Control Design for an Adaptive Belt Load LimiterFlachheitsbasierte Regelung eines adaptiven Gurtkraftbegrenzers. Automatisierungstechnik, 2009, 57, 341-348.	0.4	0
856	Analysis and Control of Nonlinear Systems. , 2009, , .		230
857	Incorporating a class of constraints into the dynamics of optimal control problems. Optimal Control Applications and Methods, 2009, 30, 537-561.	1.3	48
858	A functional iterative approach to the tracking control of nonminimum phase switched power converters. Mathematics of Control, Signals, and Systems, 2009, 21, 203-227.	1.4	5
859	An adaptronic approach to active vibration control of machine tools with parallel kinematics. Production Engineering, 2009, 3, 207-215.	1.1	16
860	Feedforward control design for a semilinear wave equation. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 7-10.	0.2	10
861	Dynamics and control of underactuated mechanical systems: analysis and simple experimental verification. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 107-108.	0.2	2
862	Model-based piezoelectric hysteresis and creep compensation for highly-dynamic feedforward rest-to-rest motion control of piezoelectrically actuated flexible structures. International Journal of Engineering Science, 2009, 47, 1193-1207.	2.7	20
863	Controlling multiparticle system on the line. I. Journal of Differential Equations, 2009, 246, 4772-4790.	1.1	1
864	Motion planning for cooperative unicycle-type mobile robots with limited sensing ranges: A distributed receding horizon approach. Robotics and Autonomous Systems, 2009, 57, 1094-1106.	3.0	52
865	Design of adaptive feedforward control under input constraints for a benchmark CSTR based on a BVP solver. Computers and Chemical Engineering, 2009, 33, 473-483.	2.0	22
866	Flatness-based hypersonic reentry guidance of a lifting-body vehicle. Control Engineering Practice, 2009, 17, 588-596.	3.2	46
867	Tracking control for boundary controlled parabolic PDEs with varying parameters: Combining backstepping and differential flatness. Automatica, 2009, 45, 1182-1194.	3.0	152
868	Verification Techniques for Sensitivity Analysis and Design of Controllers for Nonlinear Dynamic Systems with Uncertainties. International Journal of Applied Mathematics and Computer Science, 2009, 19, 425-439.	1.5	20
869	Explicit Computation of the Sampling Period in Emulation of Controllers for Nonlinear Sampled-Data Systems. IEEE Transactions on Automatic Control, 2009, 54, 619-624.	3.6	232
870	Flatness-based control of open-channel flow in an irrigation canal using SCADA [Applications of Control]. IEEE Control Systems, 2009, 29, 22-30.	1.0	28
871	Control for autonomous VTOL aircraft with restricted inputs. , 2009, , .		0

#	Article	IF	CITATIONS
872	Velocity-Scheduling Control for a Unicycle Mobile Robot: Theory and Experiments. IEEE Transactions on Robotics, 2009, 25, 451-458.	7.3	38
873	Energy Management in a Fuel Cell/Supercapacitor Multisource/Multiload Electrical Hybrid System. IEEE Transactions on Power Electronics, 2009, 24, 2681-2691.	5.4	106
874	Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2009, , .	0.6	110
875	Design of Observer-based Compensators. , 2009, , .		28
876	A Mixed Local-Global Solution to Motion Planning within 3-D Environments. , 2009, , .		7
877	A Quaternion-Based Inverse Dynamics Model for Real-Time UAV Trajectory Generation. , 2009, , .		4
879	A Differentially Flat Open-Chain Space Robot with Arbitrarily Oriented Joint Axes and Two Momentum Wheels at the Base. IEEE Transactions on Automatic Control, 2009, 54, 2185-2191.	3.6	30
880	Nonlinear Control of an Electrostatic Micromirror Beyond Pull-In With Experimental Validation. Journal of Microelectromechanical Systems, 2009, 18, 914-923.	1.7	40
881	Trajectory Planning for Boundary Controlled Parabolic PDEs With Varying Parameters on Higher-Dimensional Spatial Domains. IEEE Transactions on Automatic Control, 2009, 54, 1854-1868.	3.6	46
882	Controllers for mobile robot dynamic models: Trajectory tracking with applications to convoy-like vehicles. , 2009, , .		1
883	Stabilization of the spatial double inverted pendulum using stochastic programming seen as a model of standing postural control. , 2009 , , .		9
884	Tracking-error model-based PDC control for mobile robots with acceleration limits. , 2009, , .		5
885	From flatness-based trajectory tracking to path following. , 2009, , .		2
886	Sliding mode based differential flatness control and state estimation of vehicle active suspensions. , 2009, , .		5
887	On Some Nonlinear Current Controllers for Three-Phase Boost Rectifiers. IEEE Transactions on Industrial Electronics, 2009, 56, 360-370.	5.2	97
888	Sliding-Mode Control Scheme for an Intelligent Bicycle. IEEE Transactions on Industrial Electronics, 2009, 56, 3357-3368.	5.2	58
889	A Third-Order Sliding-Mode Controller for a Stepper Motor. IEEE Transactions on Industrial Electronics, 2009, 56, 3337-3346.	5.2	81
890	Integral sliding mode control of an extended Heisenberg system. IET Control Theory and Applications, 2009, 3, 1409-1424.	1.2	27

#	Article	IF	CITATIONS
891	Path planning for satellite slew manoeuvres: a combined flatness and collocation-based approach. IET Control Theory and Applications, 2009, 3, 481-491.	1.2	21
892	Coupled linear parameter varying and flatness-based approach for space re-entry vehicles guidance. IET Control Theory and Applications, 2009, 3, 1081-1092.	1.2	19
893	Flatness of Switched Linear Discrete-Time Systems. IEEE Transactions on Automatic Control, 2009, 54, 615-619.	3.6	24
894	Duality for Differential-Difference Systems over Lie Groups. SIAM Journal on Control and Optimization, 2009, 48, 2051-2084.	1.1	6
897	Real-Time Application of Interval Methods for Robust Control of Dynamical Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 384-389.	0.4	4
898	Model-Based Nonlinear Trajectory Control of a Drive Chain with Hydrostatic Transmission. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 461-466.	0.4	16
899	Motion planning and feedback control of a planar robotic unicycle model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 501-506.	0.4	8
900	Trajectory tracking for UAVs with bounded inputs and some related applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 355-360.	0.4	4
901	MODEL-FREE CONTROL AND INTELLIGENT PID CONTROLLERS: TOWARDS A POSSIBLE TRIVIALIZATION OF NONLINEAR CONTROL?. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1531-1550.	0.4	210
902	Feedback Control of a Balancing Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 495-500.	0.4	4
903	Time-dependent Motion Planning for Nonholonomic Mobile Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 517-522.	0.4	3
904	Discrete PDC control design with observer for trajectory tracking of non-holonomic mobile robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 170-175.	0.4	1
905	Improved Performance for the Synchronization of the Angular Velocity in Hybrid Electric Vehicles using a Feedforward Strategy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 530-535.	0.4	4
906	Flatness-Based Feedforward Control of a Diesel Engine Air System with EGR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 598-603.	0.4	9
907	Two degree of freedom controllers for planetary landing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 963-968.	0.4	2
908	Extension of the transfer function approach to the realization problem of nonlinear systems to discrete-time case. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 179-184.	0.4	5
909	Constrained Output Path-Following for Nonlinear Systems Using Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 753-758.	0.4	8
910	Backstepping for nonsmooth MIMO nonlinear Volterra systems with noninvertible input-output maps *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1158-1162.	0.4	0

#	ARTICLE	IF	CITATIONS
911	Flat inputs in the MIMO case. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 695-700.	0.4	19
912	Set-point invariant control design by integrator backstepping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1163-1168.	0.4	0
913	Flatness based control design for a nonlinear heavy chain model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 701-706.	0.4	3
914	A Kinematic Model of the Nonholonomic n-bar System: Geometry and Flatness. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 689-694.	0.4	1
915	Flatness-based Temperature Control of Metal Sheets IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 8-15.	0.4	2
916	Motion Planning for a Flexible Link Manipulator with Macro-fiber Composite Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 486-491.	0.4	0
917	Flatness based control of a parallel hybrid drivetrain. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 524-529.	0.4	5
918	Adaptive Flatness Based Control of a Hydraulic Clutch Actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 707-712.	0.4	2
919	A Generalized Predictive Force Controller for electropneumatic cylinders. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1058-1063.	0.4	5
920	On Parametrizations for a Special Class of Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1261-1266.	0.4	5
921	On Symbolic Computation of Flat Outputs for Differentially Flat Systems *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 677-682.	0.4	6
922	Trajectory planning and receding horizon tracking control of a quasilinear diffusion-convection-reaction system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 587-592.	0.4	4
923	Sensorless Control of a Stepper Motor Based on Higher Order Sliding Modes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 777-782.	0.4	3
924	Describing and Calculating Flat Outputs of Two-input Driftless Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 683-688.	0.4	3
925	Distributed Target Localization and Encirclement with a Multi-Robot System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 151-156.	0.4	32
926	Disturbance Decoupling of Coupled Tanks: From Theory to Practice. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 172-177.	0.4	6
927	Approaches to control design and optimization in heat transfer problems. Journal of Computer and Systems Sciences International, 2010, 49, 380-391.	0.2	15
928	Interval arithmetic techniques for the design of controllers for nonlinear dynamical systems with applications in mechatronics. II. Journal of Computer and Systems Sciences International, 2010, 49, 833-846.	0.2	1

#	Article	IF	CITATIONS
929	Feed-Forward Control of Open Channel Flow Using Differential Flatness. IEEE Transactions on Control Systems Technology, 2010, 18, 213-221.	3.2	17
930	Robust path tracking using flatness for fractional linear MIMO systems: A thermal application. Computers and Mathematics With Applications, 2010, 59, 1667-1678.	1.4	35
931	Guaranteed set-point computation with application to the control of a sailboat. International Journal of Control, Automation and Systems, 2010, 8 , 1 -7.	1.6	30
932	A numerical approach to trajectory planning for yoyo movement. Journal of Shanghai Jiaotong University (Science), 2010, 15, 604-609.	0.5	0
933	PDC Control Design for Non-holonomic Wheeled Mobile Robots with Delayed Outputs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 60, 395-414.	2.0	45
934	Robust terminal area energy management guidance using flatness approach. IET Control Theory and Applications, 2010, 4, 472-486.	1.2	15
935	Modeling and Control of Fuel Cell/Supercapacitor Hybrid Source Based on Differential Flatness Control. IEEE Transactions on Vehicular Technology, 2010, 59, 2700-2710.	3.9	130
936	Nonlinear model-based control of the Czochralski process I: Motivation, modeling and feedback controller design. Journal of Crystal Growth, 2010, 312, 1005-1018.	0.7	50
937	Cascaded two-degree-of-freedom control of seeded batch crystallisations based on explicit system inversion. Journal of Process Control, 2010, 20, 29-44.	1.7	19
938	On uniform controller design for linear switched systems. Nonlinear Analysis: Hybrid Systems, 2010, 4, 189-198.	2.1	2
939	Output feedback pole placement for linear time-varying systems with application to the control of nonlinear systems. Automatica, 2010, 46, 1524-1530.	3.0	12
940	Interfacial energy estimation in a precipitation reaction using the flatness based control of the moment trajectories. Chemical Engineering Science, 2010, 65, 2183-2189.	1.9	6
941	Nonlinear pressure control of self-supplied variable displacement axial piston pumps. Control Engineering Practice, 2010, 18, 84-93.	3.2	63
942	Analytic normal forms and symmetries of strict feedforward control systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1431-1454.	2.1	6
943	Flatness based trajectory planning for the shallow water equations. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 617-618.	0.2	3
944	Active Vibration Control for a Nonlinear Mechanical System Using On-line Algebraic Identification. , 2010, , .		2
945	Model Predictive Trajectory Control for High-Speed Rack Feeders. , 0, , .		10
946	Design of a decoupling controller structure for first order hyperbolic PDEs with distributed control action. , 2010, , .		8

#	Article	IF	CITATIONS
947	Iterative output replanning for flat systems affected by additive noise. , 2010, , .		1
948	Fehlertolerante Regelung bei aktuatorĀĦnlichen Fehlern mittels AbleitungsschĀŒungFault Tolerant Control in the case of Actuator Type of Faults based on Derivative Estimation. Automatisierungstechnik, 2010, 58, 80-88.	0.4	1
949	On the Observability for a Class of Nonlinear (Bio)chemical Systems. International Journal of Chemical Reactor Engineering, 2010, 8 , .	0.6	6
950	Differentially flat mobile manipulators mounted with an under-actuated vertical arm. , 2010, , .		O
951	Flatness-based guidance for planetary landing. , 2010, , .		8
952	A mixed GPC-H <inf>∞</inf> robust cascade position-pressure control strategy for electropneumatic cylinders. , 2010, , .		2
953	Model-free control of dc/dc converters. , 2010, , .		51
954	Nonlinear control of a pressurised water supply driven by a permanent magnet synchronous motor. , 2010, , .		3
955	Fault tolerant tracking control for nonlinear systems based on derivative estimation. , 2010, , .		9
956	Left invertibility, flatness and identifiability of switched linear dynamical systems: a framework for cryptographic applications. International Journal of Control, 2010, 83, 145-153.	1.2	11
957	Motion planning and control for mothership-cable-drogue systems in aerial recovery of micro air vehicles. , 2010, , .		4
958	Path planning and optimal control strategies for unmanned aerial vehicles with bounded inputs. , 2010, , .		1
959	Port Controlled Hamiltonian modeling and periodic adaptive L2 disturbance attenuation control algorithm for Active Power Filter. , 2010, , .		1
960	A predictive robust cascade position-torque control strategy for Pneumatic Artificial Muscles. , 2010,		1
961	Motion planning for a damped euler-bernoulli beam. , 2010, , .		8
962	Invariant Trajectory Tracking With a Full-Size Autonomous Road Vehicle. IEEE Transactions on Robotics, 2010, 26, 758-765.	7.3	59
963	Transfer Equivalence and Realization of Nonlinear Input-Output Delta-Differential Equations on Homogeneous Time Scales. IEEE Transactions on Automatic Control, 2010, 55, 2601-2606.	3.6	22
964	Energy efficient trajectory generation for a state-space based JPL Aerobot. , 2010, , .		1

#	Article	IF	CITATIONS
965	A Generalized Proportional Integral approach to sliding mode controller design in switched systems. , 2010, , .		6
966	SELF-SYNCHRONIZING STREAM CIPHERS AND DYNAMICAL SYSTEMS: STATE OF THE ART AND OPEN ISSUES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2979-2991.	0.7	11
967	RoboLeader for reconnaissance by a team of robotic vehicles. , 2010, , .		10
968	A hybrid global robust finite-time differentiator. , 2010, , .		O
969	Trajectory planning for quasilinear parabolic distributed parameter systems based on finite-difference semi-discretisations. International Journal of Control, 2010, 83, 1093-1106.	1.2	14
970	Folgeregelung nichtlinearer Eingrößensysteme mittels linearer zeitvarianter Ausgangsrückführung. Automatisierungstechnik, 2010, 58, 383-393.	0.4	0
971	Entwurf nichtlinearer Beobachter mit linearer und nÄ ¤ erungsweise linearer Fehlerdynamik. Automatisierungstechnik, 2010, 58, 489-497.	0.4	1
972	Differenzielle Flachheit: Eine n $\tilde{A}\frac{1}{4}$ tzliche Methodik auch f $\tilde{A}\frac{1}{4}$ r lineare SISO-SystemeDifferential Flatness: A Useful Method also for Linear SISO Systems. Automatisierungstechnik, 2010, 58, 5-13.	0.4	30
973	Ein modellbasiertes Konzept zur Antriebsstrangregelung f $\tilde{A}^{1}\!\!/_{4}$ r ein Parallelhybridfahrzeug. Automatisierungstechnik, 2010, 58, 568-579.	0.4	3
974	Flachheitsbasierter Vorsteuerungsentwurf f $ ilde{A}^1\!\!/\!\!4$ r den Antriebsstrang eines Parallelhybriden. Automatisierungstechnik, 2010, 58, 560-567.	0.4	0
975	Flachheitsbasierter Entwurf linearer zeitvarianter SISO-Systeme. Automatisierungstechnik, 2010, 58, 351-360.	0.4	3
976	The control method of a time-delay system with nonlinear uncertainty. , 2010, , .		1
977	Differentially Flat Designs of Underactuated Mobile Manipulators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	6
978	An Advanced Patient Lift and Transfer Device for the Home. Journal of Medical Devices, Transactions of the ASME, 2010, 4, .	0.4	15
979	B-Splines Based Optimal Control Solution. , 2010, , .		9
980	Adaptive Trajectory Planning for a Quad-rotor Unmanned Aerial Vehicle. , 2010, , .		2
981	Total energy-shaping IDA-PBC control of the 2D-SpiderCrane. , 2010, , .		14
982	Motion planning for an autonomous vehicle driving on motorways by using flatness properties. , 2010, , .		6

#	Article	IF	CITATIONS
983	Analysis of Differential Flatness-Based Control for a Fuel Cell Hybrid Power Source. IEEE Transactions on Energy Conversion, 2010, 25, 909-920.	3.7	48
984	Lyapunov Stability of Linear Predictor Feedback for Time-Varying Input Delay. IEEE Transactions on Automatic Control, 2010, 55, 554-559.	3.6	259
985	Load Torque Estimation and Passivity-Based Control of a Boost-Converter/DC-Motor Combination. IEEE Transactions on Control Systems Technology, 2010, , .	3.2	62
986	Differential Flatness of a Class of \$n\$-DOF Planar Manipulators Driven by 1 or 2 Actuators. IEEE Transactions on Automatic Control, 2010, 55, 548-554.	3.6	22
987	Flatness-based feedforward control of a two-stage turbocharged diesel air system with EGR. , 2010, , .		7
988	Segregation of Heterogeneous Units in a Swarm of Robotic Agents. IEEE Transactions on Automatic Control, 2010, 55, 743-748.	3.6	65
989	Output feedback design for exact state stability of flat nonlinear systems. , 2010, , .		6
990	A differential flat approach to trajectory noise assessment. , 2010, , .		0
991	Control algorithm of renewable energy power plant supplied by fuel cell/solar cell/ supercapacitor power source. , $2010, , .$		6
992	Generalised proportional integral torque control for single-link flexible manipulators. IET Control Theory and Applications, 2010, 4, 773-783.	1.2	23
993	Flatness-based trajectory planning for the shallow water equations. , 2010, , .		7
994	Controllability of Networks of Spatially One-Dimensional Second Order PDEs—An Algebraic Approach. SIAM Journal on Control and Optimization, 2010, 48, 3882-3902.	1.1	37
995	Trajectory tracking for the magnetic ball levitation system via exact feedforward linearisation and GPI control. International Journal of Control, 2010, 83, 1155-1166.	1.2	54
996	Modeling and flatness of rigid and flexible cable suspended underactuated robots. , 2010, , .		0
997	Non-linear sliding mode surfaces for a class of underactuated mechanical systems. IET Control Theory and Applications, 2010, 4, 2195-2204.	1.2	25
998	Towards ontology-based automated disassembly systems. , 2010, , .		26
1000	Trajectory generation for aircraft based on differential flatness and spline theory. , 2010, , .		11
1001	Fault detection, isolation, and recovery using spline tools and differential flatness with application to a magnetic $l_{m,m} = 1000$, where $l_{m,m} = 1000$ is a magnetic $l_{m,m} = 1000$ and $l_{m,m} = 1000$ is a magnetic $l_{m,m} = 1000$ in $l_{m,m} = 1000$ is a magnetic $l_{m,m} = 1000$ in $l_{m,m} = 1000$ is a magnetic $l_{m,m} = 1000$ in $l_{m,m} = 1000$ in $l_{m,m} = 1000$ is a magnetic $l_{m,m} = 1000$ in $l_{m,m} = 1000$		3

#	Article	IF	CITATIONS
1002	Induction Motor Control Design. Advances in Industrial Control, 2010, , .	0.4	147
1003	Balanced Truncation for Discrete Time Markov Jump Linear Systems. IEEE Transactions on Automatic Control, 2010, 55, 2606-2611.	3.6	30
1004	Distributed receding horizon planning for multi-robot systems. , 2010, , .		11
1005	On sufficient conditions to keep differential flatness under the addition of new inputs. International Journal of Control, 2010, 83, 829-836.	1.2	4
1006	Discrete Flatness for Non Linear Systems FDI. , 2010, , .		1
1007	Flatness based speed control of drive systems with resonant loads. , 2010, , .		5
1008	Trajectory Tracking of a 3DOF Laboratory Helicopter Under Input and State Constraints. IEEE Transactions on Control Systems Technology, 2010, 18, 944-952.	3.2	57
1009	Two flat normal forms for a class of nonlinear dynamical systems. , 2010, , .		3
1010	A Time-Varying System Control Using Implicit Flatness: Case of an Inverted Pendulum. , 2010, , .		2
1011	Opportunistic 3D trajectory generation for the JPL Aerobot with Nonlinear Trajectory Generation methodology. , 2010, , .		1
1012	Methods for trajectory generation in a magnetic-levitation system under constraints. , 2010, , .		15
1013	Simple Tracking Controllers for Autonomous VTOL Aircraft With Bounded Inputs. IEEE Transactions on Automatic Control, 2010, 55, 737-743.	3.6	83
1014	A GPI sliding mode control approach for linear controllable switched systems. , 2010, , .		1
1015	Fuel cell power regulation based-on differential flatness theory for high-power converter applications. , 2010, , .		0
1016	Robust backstepping control of an underactuated one-legged hopping robot in stance phase. Robotica, 2010, 28, 583-596.	1.3	8
1017	Predictive driver interpreter by using inverse model for heavy vehicles. , 2010, , .		0
1018	Passivity based trajectory tracking control with predefined local linear error dynamics. , 2010, , .		4
1019	Trajectory tracking for non-holonomic cars: A linear approach to controlled leader-follower formation. , 2010, , .		17

#	Article	IF	CITATIONS
1020	Object related reactive offset maneuver., 2010,,.		0
1021	Robustness Analysis With Respect to Exogenous Perturbations for Flatness-Based Exact Feedforward Linearization. IEEE Transactions on Automatic Control, 2010, 55, 727-731.	3.6	32
1022	Controllers for trajectory tracking and string-like formation in Wheeled Mobile Robots with bounded inputs. , $2010, , .$		10
1023	Clutch slip control of automatic transmissions: A nonlinear feedforward-feedback design. , 2010, , .		8
1024	Open-loop control design via parametrization applied in a two-level quantum system model. , 2010, , .		0
1025	Sensitivity-based feedforward and feedback control using algorithmic differentiation. , 2010, , .		6
1026	Flatness based control of a non-ideal DC/DC boost converter., 2011,,.		28
1027	Flatness based design method for nonlinear control systems. , 2011, , .		1
1028	Computationally efficient trajectory optimization for linear control systems with input and state constraints. , $2011, \ldots$		3
1029	Nonlinear control of a condensation turbine with steam extraction. , 2011, , .		0
1030	Active nonlinear vehicle suspension control based on real-time estimation of perturbation signals. , $2011, , .$		5
1031	Synthesis of flatness control for a multi-axis robot manipulator: An experimental approach., 2011,,.		5
1032	Experimental validation of time optimal MPC on a flexible motion system. , 2011, , .		6
1033	Motion planning on Mobile Robots using Differential Flatness. IEEE Latin America Transactions, 2011, 9, 1006-1011.	1.2	8
1034	A disturbance rejection-flatness based linear output feedback control approach for tracking tasks on a Chua's circuit. , 2011 , , .		3
1035	On the linear control of the quad-rotor system. , 2011, , .		8
1036	The geometry, controllability, and flatness property of the <i>n</i> -bar system. International Journal of Control, 2011, 84, 834-850.	1.2	11
1037	Algebraic nonlinear estimation and flatness-based lateral/longitudinal control for automotive vehicles. , $2011, , .$		25

#	Article	IF	CITATIONS
1038	A triangular canonical form for a class of 0-flat nonlinear systems. International Journal of Control, 2011, 84, 261-269.	1.2	118
1039	Flatness based control of an isolated three-port bidirectional DC-DC converter for a fuel cell hybrid source., 2011,,.		24
1040	Car-like mobile robot oriented digital acceleration control method., 2011,,.		1
1041	Model-based control of solenoid actuators using flux channel reluctance models. , 2011, , .		2
1042	Active vibration absorption of multi-frequency harmonic forces on mass-spring-damper systems. , 2011,		5
1043	Semi-global stabilization for the Buck-Buck converter via exact tracking error dynamics passive output feedback. , 2011, , .		2
1044	Traffic network ramp metering based on High Order Sliding Mode and flatness approaches: A case study. , $2011,$, .		1
1045	Torque Vectoring with a feedback and feed forward controller - applied to a through the road hybrid electric vehicle. , 2011, , .		28
1046	Optimal control of an holonomic system: Feedforward design and LQR control for a & amp; #x201C; pick and place& amp; #x201D; system., 2011,,.		0
1047	Maximum power point tracker of a wind generator based on the Flatness-based control. , 2011, , .		5
1048	On calculating flat outputs for Pfaffian systems by a reduction procedure - Demonstrated by means of the VTOL example. , 2011 , , .		11
1049	TS-fuzzy predictor observer design for trajectory tracking of wheeled mobile robot. , 2011, , .		4
1050	Control lineal robusto de sistemas no lineales diferencialmente planos. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2011, 8, 14-28.	0.6	12
1051	Model-Based Feedforward Control of Large Deformable Mirrors. European Journal of Control, 2011, 17, 261-272.	1.6	18
1052	Control for teams of kinematic unicycle-like and skid-steering mobile robots with restricted inputs: Analysis and applications. , 2011 , , .		4
1053	High order sliding mode control for real-time ramp metering. , 2011, , .		2
1054	Nonlinear feedforward–feedback control of clutch-to-clutch shift technique. Vehicle System Dynamics, 2011, 49, 1895-1911.	2.2	37
1055	Model Based-Energy Control of a Solar Power Plant With a Supercapacitor for Grid-Independent Applications. IEEE Transactions on Energy Conversion, 2011, 26, 1210-1218.	3.7	64

#	Article	IF	CITATIONS
1056	Flatness-Based Feedforward in a Two-Degree-of-Freedom Control of a Pumped Storage Power Plant. IEEE Transactions on Control Systems Technology, 2011, 19, 1540-1548.	3.2	7
1057	Performance investigation of linear control and nonlinear control based-on flatness approach for a DC link stabilized fuel cell/supercapacitor hybrid power plant., 2011,,.		O
1058	Fault parametric detection using flatness property of systems. , 2011, , .		0
1059	On the robust control of the boost converter. , 2011, , .		2
1060	Advances in Computing, Communication and Control. Communications in Computer and Information Science, 2011, , .	0.4	11
1061	Fuzzy control law based-on flatness property for a DC link stabilization for a fuel cell/supercapacitor hybrid power plant. , $2011, \ldots$		1
1062	Model based real-time collision-free motion planning for mobile robots in unknown dynamic environments. , $2011, \ldots$		2
1063	Differential flatness-based robust control of mobile robots in the presence of slip. International Journal of Robotics Research, 2011, 30, 463-475.	5.8	56
1064	Robust Control of Solid Oxide Fuel Cell Ultracapacitor Hybrid System. IEEE Transactions on Control Systems Technology, 2011, , .	3.2	25
1065	Flatness-Based Loss Optimization and Control of a Doubly Fed Induction Generator System. IEEE Transactions on Control Systems Technology, 2011, 19, 1457-1466.	3.2	34
1066	Minimum-time trajectory generation for constrained linear systems using flatness and B-splines. International Journal of Control, 2011, 84, 1565-1585.	1.2	5
1067	A Comparison Between the GPI and PID Controllers for the Stabilization of a DC–DC "Buck― Converter: A Field Programmable Gate Array Implementation. IEEE Transactions on Industrial Electronics, 2011, 58, 5251-5262.	5.2	75
1068	Two-Flexible-Fingers Gripper Force Feedback Control System for Its Application as End Effector on a 6-DOF Manipulator. IEEE Transactions on Robotics, 2011, 27, 599-615.	7.3	47
1069	Sliding Mode Control Design for Induction Motors: An Input-Output Approach. , 0, , .		O
1070	Design of Active Vibration Absorbers Using On-Line Estimation of Parameters and Signals., 0,,.		2
1071	Generalized PI Control of Active Vehicle Suspension Systems with MATLAB., 2011,,.		2
1072	Sliding Mode Control Applied to a Novel Linear Axis Actuated by Pneumatic Muscles. , 0, , .		3
1073	Control of Nonlinear Active Vehicle Suspension Systems Using Disturbance Observers. , 2011, , .		2

#	Article	IF	CITATIONS
1074	Generalized PI Control of Active Vehicle Suspension Systems with MATLAB., 0,,.		2
1075	Local Exponential Regulation of Nonholonomic Systems in Approximate Chained Form with Applications to Off-Axle Tractor-Trailers. Journal of Robotics, 2011, 2011, 1-8.	0.6	1
1076	Deterministic initialization of metric state estimation filters for loosely-coupled monocular vision-inertial systems. , $2011, , .$		2
1077	Bilateral teleoperation of multiple UAVs with decentralized bearing-only formation control., 2011,,.		0
1078	Optimal Exact Path-Following for Constrained Differentially Flat Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9875-9880.	0.4	14
1079	Revisiting some practical issues in the implementation of model-free control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8589-8594.	0.4	21
1080	Analytical Multi-Point Trajectory Generation for Differentially Flat Systems with Output Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 950-955.	0.4	4
1081	High-order sliding modes and intelligent PID controllers: First steps toward a practical comparison. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10982-10987.	0.4	2
1082	On performance and optimality tradeoffs in guidance and control law design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10988-10993.	0.4	0
1083	Feedback Linearizability and Flatness in Restricted Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13362-13367.	0.4	1
1084	Path tracking with flatness and CRONE control for Fractional Systems: thermal application. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10818-10823.	0.4	1
1085	A constructive approach for the design of self-synchronizing dynamical systems: an application to communications*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3286-3291.	0.4	0
1086	Time Optimal Tracking Control for a Permanent Magnet Linear Actuator with bounded Energy Loss*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1019-1024.	0.4	0
1087	State feedback controller for a class of MIMO non triangular systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11097-11102.	0.4	1
1088	Flatness Based Control of a Suspension System: A GPI Observer Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11103-11108.	0.4	4
1089	Checking Robust Practical Stability for Flatness Based Tracking Controllers Using Interval Methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4632-4637.	0.4	0
1090	Fast Nonlinear MPC for an Overhead Travelling Crane. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7963-7968.	0.4	32
1091	Trajectory planning for a two-dimensional quasi-linear parabolic PDE based on finite difference semi-discretizations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12632-12637.	0.4	6

#	ARTICLE	IF	CITATIONS
1092	Flatness-based Minimum-time Trajectory Generation for Constrained Linear Systems Using B-Splines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6674-6679.	0.4	4
1093	Near-Optimal Trajectory Shaping of Guided Projectiles with Constrained Energy Consumption. , 2011, , .		0
1094	Multi-vehicle dynamics and control for aerial recovery of micro air vehicles. International Journal of Vehicle Autonomous Systems, 2011, 9, 78.	0.2	12
1095	Event driven intelligent PID controllers with applications to motion control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10080-10085.	0.4	14
1096	Trajectory Tracking for Nonholonomic Mobile Robots based on Extended Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5938-5943.	0.4	4
1097	On flatness and controllability of simple hyperbolic distributed parameter systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14452-14457.	0.4	12
1098	Flatness-Based Control of Flexible Motion Systems. , 2011, , .		10
1099	Some remarks on KÃĦler differentials and ordinary differentials in nonlinear control theory. Systems and Control Letters, 2011, 60, 699-703.	1.3	5
1100	A novel trajectory-tracking control law for wheeled mobile robots. Robotics and Autonomous Systems, 2011, 59, 1001-1007.	3.0	114
1101	Differential-Flatness-Based Planning and Control of a Wheeled Mobile Manipulatorâ€"Theory and Experiment. IEEE/ASME Transactions on Mechatronics, 2011, 16, 768-773.	3.7	70
1102	A Low-Cost Flexure-Based Handheld Mechanism for Micromanipulation. IEEE/ASME Transactions on Mechatronics, 2011, 16, 773-778.	3.7	33
1103	Generic nonlinear stabilization of systems with matching algebraic structure. Annual Reviews in Control, 2011, 35, 215-234.	4.4	1
1104	Difference algebra and system identification. Automatica, 2011, 47, 1896-1904.	3.0	8
1105	Finite-time multi-agent deployment: A nonlinear PDE motion planning approach. Automatica, 2011, 47, 2534-2542.	3.0	74
1106	Improved DAE formulation for inverse dynamics simulation of cranes. Multibody System Dynamics, 2011, 25, 131-143.	1.7	42
1107	On necessary and sufficient conditions for differential flatness. Applicable Algebra in Engineering, Communications and Computing, 2011, 22, 47-90.	0.3	139
1108	Minimum-time approach to obstacle avoidance constrained by envelope protection for autonomous UAVs. Mechatronics, 2011, 21, 861-875.	2.0	13
1109	Integration and dynamic inversion of population balance equations with size-dependent growth rate. Chemical Engineering Science, 2011, 66, 3711-3720.	1.9	12

#	Article	IF	CITATIONS
1110	Inverse dynamics of underactuated mechanical systems: A simple case study and experimental verification. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 2265-2272.	1.7	21
1111	Modeling and control of the air system of a turbocharged gasoline engine. Control Engineering Practice, 2011, 19, 287-297.	3.2	47
1112	A flatness based view on state controllability of simple hyperbolic distributed parameter systems. A string with interior point mass Proceedings in Applied Mathematics and Mechanics, 2011, 11, 737-738.	0.2	1
1113	A flatness based view on state controllability of simple hyperbolic distributed parameter systems. A string with interior point mass Proceedings in Applied Mathematics and Mechanics, 2011, 11, 841-842.	0.2	1
1114	Tracking control design for a wave equation with dynamic boundary conditions modeling a piezoelectric stack actuator. International Journal of Robust and Nonlinear Control, 2011, 21, 542-562.	2.1	38
1115	Energy conservation based fuzzy tracking for unmanned aerial vehicle missions under a priori known wind information. Engineering Applications of Artificial Intelligence, 2011, 24, 278-294.	4.3	32
1116	Experimental comparison of classical PID and model-free control: Position control of a shape memory alloy active spring. Control Engineering Practice, 2011, 19, 433-441.	3.2	82
1117	Flatness-based trajectory planning for diffusion–reaction systems in a parallelepipedon—A spectral approach. Automatica, 2011, 47, 935-949.	3.0	51
1118	Energy management of fuel cell/solar cell/supercapacitor hybrid power source. Journal of Power Sources, 2011, 196, 313-324.	4.0	231
1119	Mobile robot characterized by dynamic and kinematic equations and actuator dynamics: Trajectory tracking and related application. Robotics and Autonomous Systems, 2011, 59, 343-353.	3.0	53
1120	A control strategy for platoons of differential drive wheeled mobile robot. Robotics and Autonomous Systems, 2011, 59, 57-64.	3.0	57
1121	Continuous and discrete state reconstruction for nonlinear switched systems via high-order sliding-mode observers. International Journal of Systems Science, 2011, 42, 725-735.	3.7	21
1122	O-Flat canonical form control scheme for Rabbit's dynamic walking control., 2011,,.		0
1123	Structural analysis and duality for bond graph models. , 2011, , .		0
1124	Nonlinear airpath control of modern diesel powertrains: a fuzzy systems approach. International Journal of Systems Science, 2011, 42, 263-275.	3.7	12
1125	Inversion-based control of a vehicle with a clutch using a switched causal modelling. International Journal of Systems Science, 2011, 42, 319-334.	3.7	2
1126	Modeling and Control of a 3-DOF pendulum-like manipulator. , 2011, , .		23
1127	Flatness-based control of a quadrotor helicopter via feedforward linearization. , 2011, , .		48

#	Article	IF	CITATIONS
1128	Supervisory control of differentially flat systems based on abstraction., 2011,,.		20
1129	Comparison of two nonlinear control strategies for a hybrid source system using an isolated three-port bidirectional DC-DC converter. , 2011, , .		9
1130	Real-time Trajectory Generation for Collision Avoidance with Obstacle Uncertainty. , $2011, \ldots$		8
1131	Robust linear output feedback control of a synchronous generator., 2011, , .		2
1132	Flatness-based control for an internal combustion engine cooling system., 2011,,.		17
1133	Bilateral teleoperation of multiple UAVs with decentralized bearing-only formation control. , 2011, , .		21
1134	A toolbox for the analysis of linear systems with delays. , 2011, , .		7
1135	Optimal input design for flat systems using B-splines. , 2011, , .		2
1136	Flatness based velocity tracking control of a vehicle on a roller dynamometer using a robotic driver. , 2011, , .		11
1137	Active control of a dynamically positioned vessel for the installation of subsea structures. Mathematical and Computer Modelling of Dynamical Systems, 2011, 17, 71-84.	1.4	11
1139	A decentralized planning architecture for a swarm of mobile robots., 2011,, 575-590.		0
1140	A virtual structure approach to formation control of unicycle mobile robots using mutual coupling. International Journal of Control, 2011, 84, 1886-1902.	1.2	89
1141	Linear and Nonlinear Control of Small-Scale Unmanned Helicopters. Intelligent Systems, Control and Automation: Science and Engineering, 2011, , .	0.3	70
1142	A Flatness-Based Controller for the Stabilization of the Inverted Pendulum. Mathematical Problems in Engineering, 2011, 2011, 1-11.	0.6	6
1143	Deterministic Kinodynamic Planning with hardware demonstrations., 2011,,.		5
1144	Control of a flexible beam actuated by macro-fiber composite patches: I. Modeling and feedforward trajectory control. Smart Materials and Structures, 2011, 20, 015015.	1.8	13
1145	Flight Dynamics Modeling for a Small-Scale Flybarless Helicopter UAV. , 2011, , .		8
1146	Oscillating system design applying universal formula for control., 2011,,.		5

#	Article	IF	CITATIONS
1147	Control of a multi-axis platform for metrological purposes using differential flatness., 2011,,.		1
1148	Differential flatness of a front-steered vehicle with tire force control., 2011,,.		22
1149	A Hybrid Robust Non-Homogeneous Finite-Time Differentiator. IEEE Transactions on Automatic Control, 2011, 56, 1213-1219.	3.6	67
1150	Flatness-based vehicle online path following with time-varying constraints of dynamics. , 2011, , .		1
1151	Trajectory tracking control of a 2-degree-of-freedom gantry crane robot with dynamic friction compensation. , 2011 , , .		3
1152	Advances in the Theory of Control, Signals and Systems with Physical Modeling. Lecture Notes in Control and Information Sciences, $2011, \ldots$	0.6	3
1153	Enforcing safety of cyberphysical systems using flatness and abstraction. ACM SIGBED Review, 2011, 8, 11-14.	1.8	8
1154	An efficient algorithm for checking hyper-regularity of matrices. ACM Communications in Computer Algebra, 2011, 44, 84-86.	0.2	1
1155	Zustandsregelung verteilt-parametrischer Systeme. , 2012, , .		12
1156	Flat outputs of two-input driftless control systems. ESAIM - Control, Optimisation and Calculus of Variations, 2012, 18, 774-798.	0.7	15
1157	Prioritization-based constrained trajectory planning for a nonlinear turbocharged air system with EGR. , 2012, , .		3
1158	Flatness-based electronic posture control (EPC) for accident avoidance. , 2012, , .		1
1159	Model-based control of an electro-pneumatic clutch using a sliding-mode approach. , 2012, , .		9
1160	Flatness-based deformation control of a 1 -dimensional microbeam with in-domain actuation. , 2012 , , .		1
1161	Trajectory planning and re-planning for fault tolerant formation flight control of quadrotor unmanned aerial vehicles. , 2012, , .		32
1162	Motion planning for an elastic Kirchhoff plate. , 2012, , .		0
1163	Crane control by flatness. , 2012, , .		2
1164	Aerial grasping of a moving target with a quadrotor UAV. , 2012, , .		46

#	Article	IF	CITATIONS
1165	Reactive controllers for differentially flat systems with temporal logic constraints. , 2012, , .		10
1166	Flatness-based state decomposition in magnetic flux-channel models for solenoid valve control. , 2012, , .		3
1167	Experimental validation of nonlinear MPC on an overhead crane using automatic code generation. , 2012, , .		48
1168	Safety controller synthesis using human generated trajectories: Nonlinear dynamics with feedback linearization and differential flatness. , 2012, , .		11
1169	Model-predictive control of powershifts of heavy-duty trucks with dual-clutch transmissions. , 2012, , .		5
1170	The trajectory tracking problem for an unmanned four-rotor system: flatness-based approach. International Journal of Control, 2012, 85, 69-77.	1.2	56
1171	Deformation control of a 1-dimensional microbeam with in-domain actuation. , 2012, , .		1
1172	Flatness-based trajectory planning for a quadrotor Unmanned Aerial Vehicle test-bed considering actuator and system constraints. , 2012, , .		17
1173	Feedback control for steering support system based on flatness and quantum particle swarm optimization. , 2012, , .		1
1174	Stability control of vehicle with tire blowout using differential flatness based MPC method., 2012,,.		9
1175	Interactive planning of persistent trajectories for human-assisted navigation of mobile robots. , 2012, , .		21
1176	A robust controller based on adaptive super-twisting algorithm for a 3DOF helicopter. , 2012, , .		9
1177	Position control of an electric clutch actuator., 2012,,.		3
1178	Real-time trajectory generation for three-times continuous trajectories. , 2012, , .		19
1179	Modeling and Control of UAV Bearing Formations with Bilateral High-level Steering. International Journal of Robotics Research, 2012, 31, 1504-1525.	5.8	133
1180	Parameter identification and observer-based control for distributed heating systems– the basis for temperature control of solid oxide fuel cell stacks. Mathematical and Computer Modelling of Dynamical Systems, 2012, 18, 329-353.	1.4	12
1181	Nonlinear Modeling and Control of a 3 DOF Helicopter. , 2012, , .		1
1182	A Torus Based Three Dimensional Motion Planning Model for Very Maneuverable Micro Air Vehicles. , 2012, , .		1

#	Article	IF	CITATIONS
1183	A Flatness Based Speed Control Approach For Merge Behind Operations. , 2012, , .		1
1184	A Detailed Nonlinear Dynamic Model of a 3-DOF Laboratory Helicopter for Control Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 216-221.	0.4	4
1185	Nonlinear Model-Predictive Control of an Electro-Pneumatic Clutch for Truck Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 526-531.	0.4	3
1186	Motion Planning and Tracking of Subsea Structures. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 305-309.	0.4	O
1187	Closed-form feedback controllers for set-point and trajectory tracking for the nonlinear model of quadrotor helicopters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 375-380.	0.4	6
1188	Predictive Control for Autonomous Aerial Vehicles Trajectory Tracking. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 508-513.	0.4	6
1189	Four-state Trajectory-tracking Control Law for Wheeled Mobile Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 399-404.	0.4	2
1190	Simulation-Based Evaluation of New Freeway Isolated Ramp Metering. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 347-352.	0.4	0
1191	Towards Heading Control of an Autonomous Sailing Platform through Weight Balancing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 392-397.	0.4	8
1192	Vorsteuerungs-Entwurf im Frequenzbereich: Offline oder Online. Automatisierungstechnik, 2012, 60, 375-383.	0.4	14
1193	Beobachterbasierte Zustandsr $\tilde{A}\frac{1}{4}$ ckf $\tilde{A}\frac{1}{4}$ hrungen f $\tilde{A}\frac{1}{4}$ r hyperbolische verteiltparametrische Systeme. Automatisierungstechnik, 2012, 60, 462-475.	0.4	4
1194	Multi-Objective Optimization of an Aircraft Trajectory between Cities using an Inverse Model Approach. , 2012, , .		5
1195	Zur konstruktiven Berechnung flacher AusgÄ r ge fýr nichtlineare Systeme. Automatisierungstechnik, 2012, 60, 452-461.	0.4	1
1196	A Novel Feed-Forward Control of Voltage Source Converter High Voltage DC. Australian Journal of Electrical and Electronics Engineering, 2012, 9, 171-176.	0.7	0
1197	Exact Modal Decomposition of Non-linear Second-Order Systems. , 2012, , .		2
1198	Obstacle Avoidance for Trajectory Tracking Control of Wheeled Mobile Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 906-911.	0.4	4
1199	Closed-loop control algorithm for some class of nonholonomic systems using polar representation. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2012, 60, 521-535.	0.8	2
1200	Hardware-in-the-Loop Simulation von Hydraulikventilen mit virtuellen Verbrauchern. Automatisierungstechnik, 2012, 60, 168-176.	0.4	2

#	Article	IF	CITATIONS
1201	A Comparison of Control Techniques for Robust Docking Maneuvers of an AGV. IEEE Transactions on Control Systems Technology, 2012, 20, 1116-1123.	3.2	55
1202	Flatness-Based Control of Three-Phase Inverter With Output \$LC\$ Filter. IEEE Transactions on Industrial Electronics, 2012, 59, 2890-2897.	5.2	76
1203	Flatness-based control and observer design scheme for hybrid synchronous machines., 2012,,.		3
1204	Trajectory Planning and Replanning Strategies Applied to a Quadrotor Unmanned Aerial Vehicle. Journal of Guidance, Control, and Dynamics, 2012, 35, 1667-1671.	1.6	28
1205	Hierarchical Motion Planning With Dynamical Feasibility Guarantees for Mobile Robotic Vehicles. IEEE Transactions on Robotics, 2012, 28, 379-395.	7.3	65
1206	Control strategies for groups of autonomous wheeled mobile robots with restricted inputs. , 2012, , .		0
1207	Shared Control: Balancing Autonomy and Human Assistance with a Group of Quadrotor UAVs. IEEE Robotics and Automation Magazine, 2012, 19, 57-68.	2.2	164
1208	Splines and polynomial tools for flatness-based constrained motion planning. International Journal of Systems Science, 2012, 43, 1396-1411.	3.7	17
1209	Some remarks concerning differential flatness and tangent systems. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 729-730.	0.2	3
1210	Flatness-based feedforward control design of a system of parabolic PDEs based on finite difference semi-discretization. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 731-732.	0.2	3
1211	Real-time trajectory optimization of an underactuated rigid spacecraft using differential flatness. Aerospace Science and Technology, 2012, 23, 132-139.	2.5	12
1212	Configuration flatness of Lagrangian control systems with fewer controls than degrees of freedom. Systems and Control Letters, 2012, 61, 334-342.	1.3	5
1213	Bilateral Teleoperation of Groups of Mobile Robots With Time-Varying Topology. IEEE Transactions on Robotics, 2012, 28, 1019-1033.	7.3	175
1214	Voltage regulation of a fuel cell-boost converter system : A proportional integral exact tracking error dynamics passive output feedback control approach. , 2012, , .		6
1215	Feedback control of the general two-trailers system with the Transverse Function approach. , 2012, , .		4
1216	Control of 3 DOF helicopter: A novel autopilot scheme based on adaptive sliding mode control. , 2012, , .		10
1217	Flatness based control for electric and hybrid electric vehicle drivetrains. , 2012, , .		4
1218	Generation of stable limit cycles with prescribed frequency and amplitude via polynomial feedback., 2012,,.		6

#	Article	IF	CITATIONS
1219	An active disturbance rejection controller for a parallel Robot via Generalized Proportional Integral observers. , $2012, $, .		5
1220	Nonlinear control of a single-link flexible joint manipulator using differential flatness. , 2012, , .		1
1221	Modeling, simulation and control for optimized operating strategies of combustion engine-based power trains. , 2012 , , .		0
1222	A novel intelligent mechatronic system for hybrid testing. , 2012, , .		0
1223	On the robust linear control of the "buck-buck" converter: An active disturbance rejection approach. , 2012, , .		1
1224	Control algorithm for a two-inputs nonholonomic kinematics using polar transformation. , 2012, , .		0
1225	A differential flatness based model predictive control approach. , 2012, , .		7
1226	Flatness-Based Trajectory Planning/Replanning for a Quadrotor Unmanned Aerial Vehicle. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 2832-2848.	2.6	152
1227	GPI observer-based non-linear integral sliding mode control and synchronisation of uncertain chaotic system. International Journal of Modelling, Identification and Control, 2012, 16, 363.	0.2	5
1228	Flatness-based linear output feedback control for disturbance rejection and tracking tasks on a Chua's circuit. International Journal of Control, 2012, 85, 594-602.	1.2	14
1229	Solutions to inversion problems in preferential crystallization of enantiomersâ€"part I: Batch crystallization in a single vessel. Chemical Engineering Science, 2012, 80, 253-269.	1.9	4
1230	A nonlinear feedforward-feedback controller design for electronic throttle based on flatness. , 2012,		3
1231	Liouville systems and symmetries. Differential Equations, 2012, 48, 1639-1651.	0.1	3
1232	Nilpotent semigroups for the characterization of flat outputs of discrete-time switched linear and LPV systems. , 2012, , .		5
1233	Model-based mechanical and control design of a three-axis platform. Mechatronics, 2012, 22, 958-969.	2.0	9
1234	Bilinear control systems with forced integrable filtration. AIP Conference Proceedings, 2012, , .	0.3	1
1235	A transfer function approach to the realisation problem of nonlinear systems. International Journal of Control, 2012, 85, 320-331.	1.2	14
1236	Finite Dimensional Controllability. , 2012, , 395-408.		O

#	Article	IF	Citations
1237	Combining Interval Analysis with Flatness Theory for State Estimation of Sailboat Robots. Mathematics in Computer Science, 2012, 6, 347-359.	0.2	4
1238	Model-based compensation of hysteresis in the force characteristic of pneumatic muscles. , 2012, , .		10
1239	Wheeled Mobile Robots: A review. IEEE Latin America Transactions, 2012, 10, 2209-2217.	1.2	57
1240	Longitudinal control for an all-electric vehicle. , 2012, , .		10
1241	Application of legendrian foliations in differential flatness problems. , 2012, , .		0
1243	Optimal trajectory generation of an asymmetric underactuated spacecraft based on orbital flatness. , 2012, , .		1
1244	Experimental fuzzy visual control for trajectory tracking of a Khepera II mobile robot., 2012,,.		3
1245	Global uniform input-to-state stabilization of large-scale interconnections of MIMO generalized triangular form switched systems. Mathematics of Control, Signals, and Systems, 2012, 24, 135-168.	1.4	37
1247	Output feedback controller design of a unicycle-type mobile robot with delayed measurements. IET Control Theory and Applications, 2012, 6, 726.	1.2	27
1248	Smooth path and speed planning for an automated public transport vehicle. Robotics and Autonomous Systems, 2012, 60, 252-265.	3.0	105
1249	Control Strategies for Driving a Group of Nonholonomic Kinematic Mobile Robots in Formation Along a Time-Parameterized Path. IEEE/ASME Transactions on Mechatronics, 2012, 17, 326-336.	3.7	59
1250	Monte Carlo algorithm for trajectory optimization based on Markovian readings. Computational Optimization and Applications, 2012, 51, 305-321.	0.9	6
1251	Two approaches for feedforward control and optimal design of underactuated multibody systems. Multibody System Dynamics, 2012, 27, 75-93.	1.7	43
1252	Sensitivity-based feedforward and feedback control for uncertain systems. Computing (Vienna/New) Tj ETQq $1\ 1$	0.784314 3.2	rg $_{13}^{BT}$ /Overl $_{13}^{CP}$
1253	Hermite Polynomials for Iterative Output Replanning for Flat Systems Affected by Additive Noise. Asian Journal of Control, 2013, 15, 292-301.	1.9	0
1254	Robust Faultâ€Tolerant Control of Launch Vehicle Via <scp>GPI</scp> Observer and Integral Sliding Mode Control. Asian Journal of Control, 2013, 15, 614-623.	1.9	27
1255	Robust input–output sliding mode control of the buck converter. Control Engineering Practice, 2013, 21, 671-678.	3.2	32
1256	Receding horizon flight control for trajectory tracking of autonomous aerial vehicles. Control Engineering Practice, 2013, 21, 1334-1349.	3.2	57

#	Article	IF	CITATIONS
1257	Distributed formation control of nonholonomic mobile robots without global position measurements. Automatica, 2013, 49, 592-600.	3.0	330
1258	Self-Configuration of Waypoints for Docking Maneuvers of Flexible Automated Guided Vehicles. IEEE Transactions on Automation Science and Engineering, 2013, 10, 470-475.	3.4	14
1259	Model-free control. International Journal of Control, 2013, 86, 2228-2252.	1.2	693
1260	Model based real-time collision-free motion planning for nonholonomic mobile robots in unknown dynamic environments. International Journal of Precision Engineering and Manufacturing, 2013, 14, 359-365.	1.1	9
1261	Tracking controllers for aerial vehicles subject to restricted inputs and wind perturbations. International Journal of Control, Automation and Systems, 2013, 11, 433-441.	1.6	4
1262	Passivity-Based Tracking Control of a Flexible Link Robot. , 2013, , 95-112.		4
1264	On exact feedback linearization of HVAC systems. , 2013, , .		5
1265	Energy flow control of Wind/PV/Batteries/Supercapacitors autonomous hybrid power sources using the flatness concept., 2013,,.		5
1266	A predictive control-based algorithm for path following of autonomous aerial vehicles. , 2013, , .		3
1267	Nonlinear flatness control applied for energy management of PV/batteries/supercapacitors hybrid power sources for stand-alone applications. , 2013, , .		3
1268	Temperature regulation and tracking in a MIMO system with a mobile heat source by LQG control with a low order model. Control Engineering Practice, 2013, 21, 333-349.	3.2	15
1269	Energy management of fuel cell/ supercapacitor hybrid power sources based on the flatness control. , 2013, , .		12
1270	Dance of the Flying Machines: Methods for Designing and Executing an Aerial Dance Choreography. IEEE Robotics and Automation Magazine, 2013, 20, 96-104.	2.2	22
1271	Nilpotent semigroups for the characterization of flat outputs of switched linear and LPV discrete-time systems. Systems and Control Letters, 2013, 62, 679-685.	1.3	11
1273	Adaptive trajectory tracking for quadrotor MAVs in presence of parameter uncertainties and external disturbances., 2013,,.		30
1274	Time-optimal path planning for flat systems with application to a wheeled mobile robot. , 2013, , .		5
1275	State reconstructor for real-time freeway ramp metering. , 2013, , .		2
1276	Real-time local path planning for mobile robots. , 2013, , .		6

#	Article	IF	CITATIONS
1277	Fault tolerant control of a three tank system: A flatness based approach. , 2013, , .		5
1278	Planning and control for a fully-automatic parallel parking assist system in narrow parking spaces., 2013,,.		8
1279	Control of a PMSM fed by a Quasi Z-source inverter based on flatness properties and saturation schemes. , $2013, \ldots$		12
1280	Study and comparison of non linear and LPV control approaches for vehicle stability control. , 2013, , .		2
1281	Decentralised flatness-based control of a hydrostatic drive train subject to actuator uncertainty and disturbances. , 2013 , , .		22
1282	Flatness control of batteries/supercapacitors hybrid sources for electric traction. , 2013, , .		6
1283	Flatness based control of a dual active bridge converter for a fuel cell application., 2013,,.		1
1284	Flatness-Based Active Vibration Control for Piezoelectric Actuators. IEEE/ASME Transactions on Mechatronics, 2013, 18, 221-229.	3.7	50
1285	Guidance and Control for Planetary Landing: Flatness-Based Approach. IEEE Transactions on Control Systems Technology, 2013, 21, 1280-1294.	3.2	11
1286	Flatness-based-control for parallel operation of N voltage-source inverters. , 2013, , .		3
1287	Speed sensorless flatness-based control of PMSM using a second order sliding mode observer. , 2013, , .		5
1288	Comparison of two methods for computing flat outputs. , 2013, , .		1
1289	On the Robust Control of Buck-Converter DC-Motor Combinations. IEEE Transactions on Power Electronics, 2013, 28, 3912-3922.	5.4	204
1290	Solutions to inversion problems in preferential crystallization of enantiomersâ€"Part II: Batch crystallization in two coupled vessels. Chemical Engineering Science, 2013, 88, 48-68.	1.9	6
1291	Trajectory control of a two-link robot manipulator in the presence of gravity and friction. , 2013, , .		4
1292	Geometric control and differential flatness of a quadrotor UAV with a cable-suspended load., 2013,,.		205
1293	Trajectory generation and control of a quadrotor with a cable-suspended load - A differentially-flat hybrid system. , 2013, , .		177
1294	Generalization of norm optimal ILC for nonlinear systems with constraints. Mechanical Systems and Signal Processing, 2013, 39, 280-296.	4.4	49

#	Article	IF	Citations
1296	Direct feedback control design for nonlinear systems. Automatica, 2013, 49, 849-860.	3.0	37
1297	Passivity based controller for underactuated PVTOL system. , 2013, , .		11
1298	Trajectory Tracking for a Three-Cable Suspension Manipulator by Nonlinear Feedforward and Linear Feedback Control. Mechanisms and Machine Science, 2013, , 371-386.	0.3	11
1299	Differential algebra for control systems design: Constructive computation of canonical forms. IEEE Control Systems, 2013, 33, 52-62.	1.0	3
1300	Real-time trajectory planning for UCAV air-to-surface attack using inverse dynamics optimization method and receding horizon control. Chinese Journal of Aeronautics, 2013, 26, 1038-1056.	2.8	50
1301	Distributed Automatic Generation Control Using Flatness-Based Approach for High Penetration of Wind Generation. IEEE Transactions on Power Systems, 2013, 28, 3002-3009.	4.6	44
1302	Motion Planning for Piezo-Actuated Flexible Structures: Modeling, Design, and Experiment. IEEE Transactions on Control Systems Technology, 2013, 21, 807-819.	3.2	26
1303	A global steering method for nonholonomic systems. Journal of Differential Equations, 2013, 254, 1903-1956.	1.1	16
1304	Designing self-synchronizing switched linear systems: An application to communications. Nonlinear Analysis: Hybrid Systems, 2013, 7, 68-79.	2.1	5
1305	Optimal Guidance Based on Receding Horizon Control and Online Trajectory Optimization. Journal of Aerospace Engineering, 2013, 26, 786-793.	0.8	19
1306	Avian-Inspired Grasping for Quadrotor Micro UAVs., 2013,,.		78
1307	Flatness Based Trajectory Generation For A Helicopter UAV. , 2013, , .		2
1308	Development and Flight Test Evaluations of an Autonomous Obstacle Avoidance System for a Rotary-Wing UAV. Unmanned Systems, 2013, 01, 3-19.	2.7	20
1309	Real-Time Cooperative Trajectory Planning Using Differential Flatness Approach and B-Splines. Applied Mechanics and Materials, 2013, 333-335, 1338-1343.	0.2	2
1310	Cooperative Trajectory Planning for Multi-UCAV Performing Air-to-Ground Target Attack Missions. Advanced Materials Research, 0, 718-720, 1329-1334.	0.3	1
1311	Flatnessâ€based deposition rate control of thermally evaporated organic semiconductors. IET Control Theory and Applications, 2013, 7, 210-217.	1.2	2
1312	Practical Stabilization of Uncertain Nonholonomic Mobile Robots Based on Visual Servoing Model with Uncalibrated Camera Parameters. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	3
1313	Multivariable speed synchronisation for a parallel hybrid electric vehicle drivetrain. Vehicle System Dynamics, 2013, 51, 321-337.	2.2	14

#	Article	IF	CITATIONS
1314	Flatness of Semilinear Parabolic PDEs—A Generalized Cauchy–Kowalevski Approach. IEEE Transactions on Automatic Control, 2013, 58, 2277-2291.	3.6	16
1315	On time-optimal trajectory planning for a flexible link robot. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2013, 227, 752-763.	0.7	14
1316	The effect off(T) gravity on an interplanetary clock and its time transfer link. Research in Astronomy and Astrophysics, 2013, 13, 1225-1230.	0.7	6
1317	Two-Stage Control Design of a Buck Converter/DC Motor System without Velocity Measurements via a <mml:math id="M1" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>id="M1"><mml:mrow><mml:mi>i\frac{1}{2}</mml:mi><mml:mo>a^"</mml:mo><mml:mi mathvariant="normal">i\frac{1}{2}</mml:mi></mml:mrow></mml:mi></mml:mrow></mml:math> -Modulator. Mathematical Problems in	0.6	45
1318	Nonlinear Control for Trajectory Tracking of a Nonholonomic RC-Hovercraft with Discrete Inputs. Mathematical Problems in Engineering, 2013, 2013, 1-16.	0.6	9
1319	Diversity of Servo-Constraint Problems for Underactuated Mechanical Systems: A Case Study Illustration. Solid State Phenomena, 0, 198, 473-482.	0.3	8
1320	Iterative learning control for optimal path following problems. , 2013, , .		10
1321	Flatness-based tracking control of nonlinear differential algebraic systems with geometric index one. , 2013, , .		2
1322	Underactuated Robots., 2013,, 1-10.		0
1323	Motion Planning for PDEs. , 2013, , 1-10.		O
1324	Human-Centered Design and Evaluation of Haptic Cueing for Teleoperation of Multiple Mobile Robots. IEEE Transactions on Cybernetics, 2013, 43, 597-609.	6.2	54
1325	Dynamic inversion of a flight critical actuator for fault diagnosis. , 2013, , .		0
1326	Control of nonholonomic wheeled mobile robots via i-PID controller. , 2013, , .		4
1327	The Averaged Control System of Fast-Oscillating Control Systems. SIAM Journal on Control and Optimization, 2013, 51, 2280-2305.	1.1	7
1328	On the linear Active Rejection Control of Thomson's Jumping Ring. , 2013, , .		7
1329	Flatness control strategy for the air subsystem of a hydrogen fuel cell system. , 2013, , .		1
1330	Acceleration feedback via an algebraic state estimation method. , 2013, , .		5
1331	Flatness based control of a dual active bridge converter for DC microgrid. , 2013, , .		7

#	Article	IF	CITATIONS
1332	Differentially flat trajectory generation for a dynamically stable mobile robot., 2013,,.		18
1333	Time-optimal parking and flying: Solving path following problems efficiently. , 2013, , .		6
1334	Experimental validation of a new adaptive control scheme for quadrotors MAVs. , 2013, , .		20
1335	Tracking control with adaptively Allocated Maximum Input Amplitudes and Enlarged Domain of Attraction for linear systems. , 2013, , .		O
1336	Two-degrees-of-freedom optimization-based control and estimation of a parabolic equation system. , 2013, , .		0
1337	Comparison of trajectory tracking controllers for emergency situations. , 2013, , .		15
1338	Predictive control for trajectory tracking and decentralized navigation of multi-agent formations. International Journal of Applied Mathematics and Computer Science, 2013, 23, 91-102.	1.5	27
1339	A passivity-based decentralized strategy for generalized connectivity maintenance. International Journal of Robotics Research, 2013, 32, 299-323.	5.8	131
1340	Multi-input control-affine systems linearizable via one-fold prolongation and their flatness. , 2013, , .		8
1341	Multivariable decoupled longitudinal and lateral vehicle control: A model-free design. , 2013, , .		24
1342	Output regulation of some classes of SISO non-minimum phase non-affine systems. , 2013, , .		0
1343	Real-time dynamic traffic routing using variable structure control. , 2013, , .		0
1344	A jet space approach to check Pfaffian systems for flatness., 2013,,.		12
1345	ON THE CONTROL OF THE MOTION OF A BOAT. Mathematical Models and Methods in Applied Sciences, 2013, 23, 617-670.	1.7	12
1346	Time-varying controller based on flatness for nonlinear anti-lock brake system. Systems Science and Control Engineering, 2013, 1, 91-104.	1.8	2
1348	A nonlinear small-gain approach to distributed formation control of nonholonomic mobile robots. , 2013, , .		2
1349	Algebraic observability of nonlinear differential algebraic systems with geometric index one., 2013,,.		2
1350	Flatness based sensorless control of PMSM using test current signal injection and compensation for differential cross-coupling inductances at standstill and low speed range. , 2013, , .		26

#	Article	IF	CITATIONS
1351	Null controllability of the 2D heat equation using flatness. , 2013, , .		4
1352	Flat Stellar Dynamic Filter For Gyroless Attitude Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 488-493.	0.4	1
1353	Comparison of Cascaded Backstepping Control Approaches with Hysteresis Compensation for a Linear Axis with Pneumatic Muscles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 773-778.	0.4	4
1354	Flatness based Control of a Gantry Crane. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 487-492.	0.4	3
1355	Stafford's Reduction of Linear Partial Differential Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 314-319.	0.4	0
1356	Control of variable-pitch quadrotors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 206-211.	0.4	3
1357	On Flatness of Discrete-time Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 588-593.	0.4	15
1358	Fast Optimization Based Motion Planning and Path-Tracking Control for Car Parking. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 86-91.	0.4	8
1359	Flatness of Two-Input Control-Affine Systems Linearizable via One-Fold Prolongation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 493-498.	0.4	6
1360	Controllability and prediction-free control of coupled transport processes viewed as linear systems with distributed delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 13-18.	0.4	7
1361	Flatness based feedback design for hyperbolic distributed parameter systems with spatially varying coefficients. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 37-42.	0.4	17
1362	Null controllability of the 1D heat equation using flatness. IFAC Postprint Volumes IPPV International Federation of Automatic Control, 2013, 46, 7-12.	0.4	4
1363	Formation Control Strategies for Autonomous Quadrotor-Type Helicopters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 324-329.	0.4	6
1364	Thomas decompositions of parametric nonlinear control systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 296-301.	0.4	5
1365	Unknown Input Observer for control design: a bond graph approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 611-616.	0.4	6
1366	Computation of flat outputs for fractional systems : a Thermal Application. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 42-47.	0.4	2
1367	Ein Werkzeug zur automatisierten Flachheitsanalyse nichtlinearer Systeme. Automatisierungstechnik, 2013, 61, 60-71.	0.4	1
1368	A Constrained Inverse Modeling Approach for Trajectory Optimization. , 2013, , .		1

#	Article	IF	CITATIONS
1369	Flatness-Based Open Loop Command Tracking for Quasistatic Microscanners., 2013,,.		8
1370	Differential flatness-based observer design for a PEM fuel cell using adaptive-gain sliding mode differentiators. , 2013, , .		7
1371	Differential flatness of a class of nâ€"DOF planar manipulators driven by an arbitrary number of actuators. , 2013, , .		4
1373	On the computation of flat outputs for nonlinear control systems. , 2013, , .		12
1374	Time-optimal quadrotor flight. , 2013, , .		22
1375	Active Disturbance Rejection Control based on a simultaneous adaptive observer and a time varying parameter identifier. , 2013, , .		4
1376	Construction of a WMR for Trajectory Tracking Control: Experimental Results. Scientific World Journal, The, 2013, 2013, 1-17.	0.8	15
1377	Nonholonomic Path Planning for a Point Robot with Car-Like Kinematics. Periodica Mathematica Hungarica, 2013, 57, 65.	0.5	6
1378	Assessment of an Average Controller for a DC/DC Converter via Either a PWM or a Sigma-Delta-Modulator. Abstract and Applied Analysis, 2014, 2014, 1-17.	0.3	8
1379	Heavy Duty Vehicle Cooling System Auxiliary Load Management Control: An Application of Linear Control Strategy (MIMO and SISO). , 2014, , .		0
1381	Nonlinear model-predictive control with hysteresis compensation of an electro-pneumatic clutch for truck applications. Mathematical and Computer Modelling of Dynamical Systems, 2014, 20, 105-129.	1.4	14
1382	Multi-variable flatness-based control of a helicopter with two degrees of freedom. , 2014, , .		9
1383	Flatness-based trajectory tracking control of a rehabilitation robot with disturbance compensation. , 2014, , .		0
1384	Fast, dynamic trajectory planning for a dynamically stable mobile robot. , 2014, , .		17
1385	Semi-autonomous trajectory generation for mobile robots with integral haptic shared control. , 2014,		35
1386	Separating the Drift from Affine Control Systems via Feedbacks. Asian Journal of Control, 2014, 16, 1541-1547.	1.9	0
1387	Nichtlineare Systeme und Regelungen. , 2014, , .		34
1388	Inverse of multivariable linear time varying bond-graph models. , 2014, , .		0

#	Article	IF	CITATIONS
1389	On the Control of the Permanent Magnet Synchronous Motor: An Active Disturbance Rejection Control Approach. IEEE Transactions on Control Systems Technology, 2014, 22, 2056-2063.	3.2	293
1390	Multi-variable flatness-based control for an engine cooling system. , 2014, , .		1
1391	A New Approach to Urban Water Management: Safe and Sure. Procedia Engineering, 2014, 89, 347-354.	1.2	125
1392	Null controllability of the heat equation using flatness. Automatica, 2014, 50, 3067-3076.	3.0	34
1393	On flatness based L <inf>1</inf> adaptive trajectory tracking control., 2014,,.		1
1394	Trajectory tracking control for intelligent vehicle based on the Euler-Lagrange systems. , 2014, , .		1
1395	2-Phase Interleaved Boost Converter for Renewable Energy Source with Nonlinear Control. Advanced Materials Research, 2014, 931-932, 888-892.	0.3	0
1396	Dynamics of Underactuated Multibody Systems. Solid Mechanics and Its Applications, 2014, , .	0.1	67
1398	Interleaved Double Dual Boost Converter for Renewable Energy System. Advanced Materials Research, 0, 931-932, 904-909.	0.3	3
1399	Modeling and control of gas supply for burners in gas-fired industrial furnaces. , 2014, , .		9
1400	Optimal Manoeuvres of Underactuated Linear Mechanical Systems: The Case of Controlling Gantry Crane Operations. Journal of Applied Mathematics, 2014, 2014, 1-16.	0.4	0
1401	Nonlinear control algorithm of supercapacitor/Li-lon battery energy storage devices for fuel cell vehicle applications. , 2014, , .		3
1402	Flat control of a torsion bar with unknown input estimation. , 2014, , .		2
1403	Ultra-local model control based on an adaptive observer. , 2014, , .		8
1404	Robust optimal rendezvous using differential drag., 2014,,.		5
1405	Flatness-based feedforward control for fast operating point transitions of compressor systems. , 2014, , .		3
1406	Risk-aware trajectory generation with application to safe quadrotor landing. , 2014, , .		17
1407	The Use of Servo-Constraints in the Inverse Dynamics Analysis of Underactuated Multibody Systems. Journal of Computational and Nonlinear Dynamics, 2014, 9, .	0.7	11

#	Article	IF	Citations
1408	Sensorless control of PMSM for base speed range using Two-Degree-of-Freedom MTPA current control and HF test current injection for low speed range. , 2014, , .		3
1409	Model predictive control of differentially flat systems using Haar wavelets. , 2014, , .		O
1410	New conditions to keep static feedback linearizability under addition of new inputs. , 2014, , .		0
1411	Exact and efficient local planning for orbitally flat systems within the RRT& $\#$ x2217; framework. , 2014, , .		1
1412	Manifold stabilization and path-following control for flat systems with application to a laboratory tower crane. , 2014, , .		4
1413	Eine Normalform fýr eine spezielle Klasse flacher nichtlinearer Mehrgrößensysteme in Pfaffscher Systemdarstellung. Automatisierungstechnik, 2014, 62, 463-474.	0.4	0
1414	Current-fed full-bridge voltage doubler DC-DC converter with sliding mode and flatness based controllers for PEM fuel cell. , 2014 , , .		2
1415	Experimental study of the derivative-free Kalman filtering for chaos. , 2014, , .		0
1416	Reversing the General One-Trailer System: Asymptotic Curvature Stabilization and Path Tracking. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 627-636.	4.7	29
1417	Tracking in interconnected gantry crane systems: A decentralized Active Disturbance Rejection Control. , 2014, , .		2
1418	High-order sliding mode control for sensorless trajectory tracking of a PMSM. International Journal of Control, 0, , 1-16.	1.2	9
1419	Full vehicle dynamics control based on LPV/& $\#$ x210B; <inf>&$\#$x221E;</inf> and flatness approaches. , 2014, , .		5
1420	Wheeled Robots., 2014,, 1-9.		7
1421	Control of Nonholonomic Systems: from Sub-Riemannian Geometry to Motion Planning. SpringerBriefs in Mathematics, 2014, , .	0.2	102
1422	Inverse optimal control for differentially flat systems with application to locomotion modeling. , 2014, , .		21
1423	Low-Complexity Controllers for Time-Delay Systems. Advances in Delays and Dynamics, 2014, , .	0.4	4
1424	On configuration flatness of linear mechanical systems. , 2014, , .		4
1425	On flatness-based control for series-connected VSC for voltage dip mitigation. , 2014, , .		3

#	Article	IF	CITATIONS
1426	Inverse simulation and analysis of underwater vehicle dynamics using feedback principles. Mathematical and Computer Modelling of Dynamical Systems, 2014, 20, 45-65.	1.4	6
1427	Flatness-based voltage tracking control for power converters in autonomous microgrids. , 2014, , .		1
1428	A novel optimal trajectory planning method for overhead cranes with analytical expressions. , 2014, , .		1
1429	Comparison of Model-Based Approaches to the Compensation of Hysteresis in the Force Characteristic of Pneumatic Muscles. IEEE Transactions on Industrial Electronics, 2014, 61, 3620-3629.	5.2	75
1430	Initial start-up and magnet polarity estimation method for HF test current injection based sensorless control of PMSM. , 2014 , , .		5
1431	Quasistatic microscanner with linearized scanning for an adaptive three-dimensional laser camera. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 011114.	1.0	12
1432	Control alghorithm of fuel cell hybrid source based on the flatness propriety. , 2014, , .		1
1433	Non-linear control of a Narrow Tilting Vehicle. , 2014, , .		5
1434	Inverse of multivariable LTV systems: a bond-graph approach. , 2014, , .		0
1435	Nonlinear Estimation and Control of Automotive Drivetrains. , 2014, , .		10
1436	Analysis and Control of Underactuated Mechanical Systems. , 2014, , .		57
1437	Minimum jerk trajectory generation of a quadrotor based on the differential flatness. , 2014, , .		12
1438	A Stable Inversion Method for Feedforward Control of Constrained Flexible Multibody Systems. Journal of Computational and Nonlinear Dynamics, 2014, 9, .	0.7	23
1439	A Virtual Motion Camouflage Approach for Cooperative Trajectory Planning of Multiple UCAVs. Mathematical Problems in Engineering, 2014, 2014, 1-15.	0.6	7
1440	Applied Non-Linear Dynamical Systems. Springer Proceedings in Mathematics and Statistics, 2014, , .	0.1	5
1441	Power flow management in WT/FC/SC hybrid system using flatness based control. , 2014, , .		5
1442	Impedance control of VToL UAVs with a momentum-based external generalized forces estimator. , 2014, , .		72
1443	Dual observerâ€based compensators for nonlinear systems. International Journal of Robust and Nonlinear Control, 2014, 24, 110-122.	2.1	1

#	Article	IF	CITATIONS
1444	An Active Disturbance Rejection Approach to Leaderâ€Follower Controlled Formation. Asian Journal of Control, 2014, 16, 382-395.	1.9	11
1445	On an implicit triangular decomposition of nonlinear control systems that are 1-flat—A constructive approach. Automatica, 2014, 50, 1649-1655.	3.0	25
1446	Control of PEMFC system air group using differential flatness approach: Validation by a dynamic fuel cell system model. Applied Energy, 2014, 113, 219-229.	5.1	58
1447	Linear active disturbance rejection control of underactuated systems: The case of the Furuta pendulum. ISA Transactions, 2014, 53, 920-928.	3.1	134
1448	Coupled nonlinear vehicle control: Flatness-based setting with algebraic estimation techniques. Control Engineering Practice, 2014, 22, 135-146.	3.2	72
1449	Time-optimal trajectory planning for underactuated spacecraft using a hybrid particle swarm optimization algorithm. Acta Astronautica, 2014, 94, 690-698.	1.7	33
1450	Calculating road input data for vehicle simulation. Multibody System Dynamics, 2014, 31, 93-110.	1.7	12
1451	Kinematics and Motion Planning of the Multi-Bar System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 75, 5-15.	2.0	1
1452	Performance investigation of linear and nonlinear controls for a fuel cell/supercapacitor hybrid power plant. International Journal of Electrical Power and Energy Systems, 2014, 54, 454-464.	3.3	63
1453	Emulation of nâ^'trailer Systems through Differentially Driven Multi-Agent Systems: Continuous- and Discrete-Time Approaches. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 75, 129-146.	2.0	6
1454	Robust control of underactuated wheeled mobile manipulators using GPI disturbance observers. Multibody System Dynamics, 2014, 32, 511-533.	1.7	14
1455	Recursive methods in control of flexible joint manipulators. Multibody System Dynamics, 2014, 32, 117-131.	1.7	15
1456	Control: A perspective. Automatica, 2014, 50, 3-43.	3.0	244
1458	Generalized Proportional Integral Tracking Controller for a Single-Phase Multilevel Cascade Inverter: An FPGA Implementation. IEEE Transactions on Industrial Informatics, 2014, 10, 256-266.	7.2	41
1460	On the Linearization Up to Multi-Output Injection for a Class of Systems With Implicitly Defined Outputs. IEEE Transactions on Automatic Control, 2014, 59, 1310-1315.	3.6	1
1461	A Green's Function-Based Design for Deformation Control of a Microbeam With In-Domain Actuation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	1
1462	Walking control for a planar biped robot using 0-flat normal form. Robotics and Autonomous Systems, 2014, 62, 68-80.	3.0	7
1463	LTV controller flatness-based design for MIMO systems. International Journal of Dynamics and Control, 2014, 2, 335-345.	1.5	4

#	Article	IF	Citations
1464	On computing flat outputs through Goursat normal form. , 2014, , .		0
1465	Current-fed full-bridge DC-DC converter with nonlinear control scheme. , 2014, , .		4
1466	On persistent excitations for the identification of switched linear dynamical systems over finite fields. Automatica, 2014, 50, 3246-3252.	3.0	0
1467	Parameter identification for ordinary and delay differential equations by using flat inputs. Theoretical Foundations of Chemical Engineering, 2014, 48, 594-607.	0.2	17
1468	Fuzzy-based gain scheduling of Exact FeedForward Linearization control and sliding mode control for magnetic ball levitation system: A comparative study. , 2014, , .		4
1469	An active disturbance rejection control approach for decentralized tracking in interconnected systems. , 2014, , .		6
1470	Adaptive control based on fast online algebraic identification and GPI control for magnetic levitation systems with time-varying input gain. International Journal of Control, 2014, 87, 1604-1621.	1.2	24
1471	Fuzzy logic-based gain scheduling of Exact Feedforward Linearization controller for magnetic ball levitation system. , 2014, , .		1
1472	Nonlinear adaptive backstepping control of two coupled hydraulic servo cylinders. , 2014, , .		7
1473	Path Generation Using \${mbi eta}^4\$-Splines for a Truck and Trailer Vehicle. IEEE Transactions on Automation Science and Engineering, 2014, 11, 187-203.	3.4	55
1474	Flatness-based control of a variable-speed wind-energy system connected to the grid. , 2014, , .		10
1475	Aerial Rendezvous of Small Unmanned Aircraft Using a Passive Towed Cable System. Journal of Guidance, Control, and Dynamics, 2014, 37, 1131-1142.	1.6	33
1476	Flatness-based MIMO control of hybrid stepper motors - design and implementation. , 2014, , .		2
1477	Normal forms for flat control-affine systems linearizable via one-fold prolongation. , 2014, , .		6
1478	Optimal Sizing Design and Energy Management of Stand-alone Photovoltaic/Wind Generator Systems. Energy Procedia, 2014, 50, 163-170.	1.8	40
1479	Left inversion of analytic nonlinear SISO systems via formal power series methods. Automatica, 2014, 50, 2381-2388.	3.0	38
1480	Nonlinear Flatness Control Applied to Supercapacitors Contribution in Hybrid Power Systems Using Photovoltaic Source and Batteries. Energy Procedia, 2014, 50, 333-341.	1.8	16
1481	On the computation of <mml:math altimg="si3.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï€</mml:mi></mml:math> -flat outputs for linear time-varying differential-delay systems. Systems and Control Letters, 2014, 71, 14-22.	1.3	7

#	Article	IF	CITATIONS
1482	Optimal Trajectory Generation Using Model Predictive Control for Aerially Towed Cable Systems. Journal of Guidance, Control, and Dynamics, 2014, 37, 525-539.	1.6	29
1483	A proof of stability of model-free control. , 2014, , .		9
1484	Particular solution of infinite-dimensional linear systems with applications to trajectory planning of boundary control systems. Mathematics of Control, Signals, and Systems, 2014, 26, 279-301.	1.4	0
1485	A study on the effect of using a flattening filter in a medical linear accelerator on the dose distribution. Journal of the Korean Physical Society, 2014, 64, 917-922.	0.3	0
1486	Constrained reachability and trajectory generation for flat systems. Automatica, 2014, 50, 1151-1159.	3.0	28
1487	Output feedback control for robust tracking of position trajectories for DC electric motors. Electric Power Systems Research, 2014, 107, 183-189.	2.1	14
1488	Distributed nonlinear control of mobile autonomous multi-agents. Automatica, 2014, 50, 1075-1086.	3.0	73
1489	The early days of geometric nonlinear control. Automatica, 2014, 50, 2203-2224.	3.0	47
1490	Optimal Path Following for Differentially Flat Robotic Systems Through a Geometric Problem Formulation. IEEE Transactions on Robotics, 2014, 30, 980-985.	7.3	19
1491	Control of truck-trailer mobile robots: a survey. Intelligent Service Robotics, 2014, 7, 245-258.	1.6	50
1492	Active vibration control in Duffing mechanical systems using dynamic vibration absorbers. Journal of Sound and Vibration, 2014, 333, 3019-3030.	2.1	38
1493	Current-fed DC-DC converter with Flatness based control for renewable energy. , 2014, , .		5
1494	HF test current injection based self-sensing control of PMSM for low and zero speed range using Two-Degree-of-Freedom current control. , 2014, , .		15
1495	Robust Nonlinear Adaptive Control of a "Boost―Converter via Algebraic Parameter Identification. IEEE Transactions on Industrial Electronics, 2014, 61, 4105-4114.	5.2	112
1496	Real-time Nonlinear Model Predictive Path-Following Control of a Laboratory Tower Crane. IEEE Transactions on Control Systems Technology, 2014, 22, 1461-1473.	3.2	120
1497	PLC Implementation of a Nonlinear Model Predictive Controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1892-1897.	0.4	9
1498	Higher-order variational problems on lie groups and optimal control applications. Journal of Geometric Mechanics, 2014, 6, 451-478.	0.5	26
1499	Hybrid Terrestrial and Aerial Quadrotor Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9834-9839.	0.4	4

#	Article	IF	CITATIONS
1501	Improved Load Tracking Performance for Combined Cycle Gas Turbine Plants through Flatness Based Feedforward Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1343-1348.	0.4	2
1502	Comparison of Nonlinear Flatness-Based Control of two Coupled Hydraulic Servo Cylinders. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10940-10945.	0.4	1
1503	Dynamical Modeling and Flatness Based Control of a Belt Drive System. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 887-888.	0.2	2
1504	High Order Sliding Mode Differentiator for Dynamical Inversion of Non-Involutive Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9159-9164.	0.4	1
1505	Controllability of the 1D Schr \tilde{A} ¶dinger equation by the flatness approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 646-651.	0.4	3
1506	Flatness-based Feedforward Control of Wind Turbines Using Lidar. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5820-5825.	0.4	8
1507	Flat Output Computation for Fractional Linear Systems: Application to a Thermal System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2891-2896.	0.4	3
1508	Flatness-based Control of Torsional-Axial Coupled Drilling Vibrations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7324-7329.	0.4	13
1509	Jerk and Current Limited Flatness-based Open Loop Control of Foveation Scanning Electrostatic Micromirrors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2685-2690.	0.4	9
1510	Trajectory Planning For a Deep Drawing Tool. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 665-670.	0.4	4
1511	Feedforward Tracking Control of Flat Recurrent Fuzzy Systems. Journal of Physics: Conference Series, 2014, 570, 022001.	0.3	0
1512	Hybrid Guidance Algorithm using Flatness and Dynamic Inversion for RLV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7-13.	0.4	4
1513	Effects of Packet Losses on Formation Control of Unmanned Aerial Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1234-1240.	0.4	10
1514	A Jet Space Approach to Derive Flat Outputs. IFAC-PapersOnLine, 2015, 48, 131-136.	0.5	1
1515	Some contributions to estimation for model-free control. IFAC-PapersOnLine, 2015, 48, 150-155.	0.5	18
1516	Remarks on a Triangular Form for 1-Flat Pfaffian Systems with Two Inputs. IFAC-PapersOnLine, 2015, 48, 109-114.	0.5	3
1518	Kinematic control of Wheeled Mobile Robot: An error based differentially flat system approach. , 2015, , .		4
1519	Multi-agent motion planning using Burgers' viscous equation and Hopf-Cole transformation, a flatness-based implementation., 2015, , .		0

#	Article	IF	Citations
1520	On flatness-based controller for shunt-connected VSC with LCL-filter for voltage dip mitigation in a weak grid. , 2015 , , .		2
1521	Predictive control of a wave energy converter with wave prediction using differential flatness. , 2015, , .		5
1522	Experimental Validation of a Cogging Torque Assisted Valve Actuation System for Internal Combustion Engines. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1.	3.7	7
1523	A PID-type Fuzzy Logic Controller based on flatness for Electronic Throttle Valve. , 2015, , .		0
1524	Generalized Proportional Integral Control for an Unmanned Quadrotor System. International Journal of Advanced Robotic Systems, 2015, 12, 85.	1.3	19
1525	Konfigurationsflachheit linearer mechanischer Systeme. Automatisierungstechnik, 2015, 63, 597-605.	0.4	1
1526	Nonholonomic Motion Planning Using the Fast Marching Square Method. International Journal of Advanced Robotic Systems, 2015, 12, 56.	1.3	11
1528	Efficient Lithium-Ion Battery Model Predictive Control Using Differential Flatness-Based Pseudospectral Methods. , 2015, , .		9
1529	Real-time quasi-optimal trajectory planning for autonomous underwater docking., 2015,,.		7
1530	Flatness of Mechanical Systems with 3 Degrees of Freedom. IFAC-PapersOnLine, 2015, 48, 19-24.	0.5	3
1531	Null-Curves in â,,⊋,n as Flat Dynamical Systems. Russian Physics Journal, 2015, 58, 959-964.	0.2	0
1532	Quasi-unknown input based 2-DOF control for a class of flat nonlinear SISO systems., 2015,,.		1
1533	Virtual Rigid Bodies for coordinated agile maneuvering of teams of micro aerial vehicles., 2015,,.		26
1534	Analytic left inversion of multivariable Lotka-Volterra models. , 2015, , .		9
1535	Some new standpoints in the design of asymptotic functional linear observers. ESAIM Proceedings and Surveys, 2015, 49, 102-114.	0.5	3
1536	Fast Wavelet-Based Model Predictive Control of Differentially Flat Systems. Processes, 2015, 3, 161-177.	1.3	6
1537	Optimal Controller and Controller Based on Differential Flatness in a Linear Guide System: A Performance Comparison of Indexes. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	1
1538	In-Domain Control of a Heat Equation: An Approach Combining Zero-Dynamics Inverse and Differential Flatness. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	5

#	Article	IF	Citations
1539	Robust tracking control for linear vibrating mechanical systems. Revista Facultad De IngenierÃa, 2015, , .	0.5	0
1540	Robust output feedback control for the trajectory tracking of robotic wheelchairs. Robotica, 2015, 33, 41-59.	1.3	7
1541	Safety Controller Synthesis Using Human Generated Trajectories. IEEE Transactions on Automatic Control, 2015, 60, 1597-1610.	3.6	5
1542	The Mathematics of Networks of Linear Systems. Universitext, 2015, , .	0.2	39
1543	Transport of Water versus Transport over Water. Operations Research/ Computer Science Interfaces Series, 2015, , .	0.3	6
1545	Stabilization and energy management in a DC grid by a variable structure flatness-based controller. , 2015, , .		0
1546	Flatness-based Model Predictive Control for the Fuel Optimization of Hybrid Electric Vehicles. IFAC-PapersOnLine, 2015, 48, 464-470.	0.5	7
1547	Characterization of flat outputs for LPV discrete-time systems: A graph-oriented approach. , 2015, , .		5
1548	Sliding mode control for a system of two coupled hydraulic cylinders. , 2015, , .		0
1549	Secure state reconstruction in differentially flat systems under sensor attacks using satisfiability modulo theory solving. , 2015, , .		18
1550	Analytic left inversion of SISO Lotka-Volterra models. , 2015, , .		5
1551	Active disturbance rejection control of singular differentially flat systems. , 2015, , .		5
1552	Feedback linearization control of the air supply system of PEM fuel cells. , 2015, , .		4
1553	A Computationally Efficient Motion Primitive for Quadrocopter Trajectory Generation. IEEE Transactions on Robotics, 2015, 31, 1294-1310.	7. 3	242
1554	Computational methods for MIMO flat linear systems: Flat output characterization, test and tracking control. , 2015 , , .		10
1555	Intelligent proportional trajectory tracking controllers: Using ultra-local model and time delay estimation techniques. , 2015, , .		12
1556	Two-degree-of-freedom damping control of driveline oscillations caused by pedal tip-in maneuver. , 2015, , .		3
1557	A variable frequency vibration absorption approach in flexible mechanical structures. , 2015, , .		0

#	Article	IF	CITATIONS
1558	Dry friction: Modelling and adaptive compensation. , 2015, , .		4
1559	Suboptimal longitudinal reference trajectory computation for time based continuous descent operations., 2015,,.		0
1560	Lateral-directional control for a fixed wing vehicle based on the total energy control system approach. , 2015 , , .		1
1561	Trajectory Tracking Control of a Mobile Robot Through a Flatness-Based Exact Feedforward Linearization Scheme. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	19
1562	Identification and Position Control of an Electromagnetic Clutch Actuator. IFAC-PapersOnLine, 2015, 48, 59-64.	0.5	3
1563	Flatness-based Target Tracking for a Quadrotor Unmanned Aerial Vehicle. IFAC-PapersOnLine, 2015, 48, 874-879.	0.5	7
1564	A new model-free design for vehicle control and its validation through an advanced simulation platform. , $2015, , .$		13
1565	On certain hyperelliptic signals that are natural controls for nonholonomic motion planning. Mathematics of Control, Signals, and Systems, 2015, 27, 415-437.	1.4	3
1566	Planning and Control of Aggressive Maneuvers for Perching on Inclined and Vertical Surfaces. , 2015, , .		16
1567	Urea-SCR Process Control for Diesel Engine Using Feedforward-Feedback Nonlinear Method. IFAC-PapersOnLine, 2015, 48, 367-372.	0.5	13
1568	On the algebraic parameter identification of vibrating mechanical systems. International Journal of Mechanical Sciences, 2015, 92, 178-186.	3.6	15
1569	Sensorless Control of PMSM for the Whole Speed Range Using Two-Degree-of-Freedom Current Control and HF Test Current Injection for Low-Speed Range. IEEE Transactions on Power Electronics, 2015, 30, 4394-4403.	5.4	97
1570	An asymptotic differentiation approach of signals in velocity tracking control of DC motors. Electric Power Systems Research, 2015, 122, 218-223.	2.1	26
1571	Linear active disturbance rejection control of the hovercraft vessel model. Ocean Engineering, 2015, 96, 100-108.	1.9	39
1572	A novel non-linear model-based control strategy to improve PEMFC water management – The flatness-based approach. International Journal of Hydrogen Energy, 2015, 40, 2371-2376.	3.8	31
1573	Delivery-Oriented Hierarchical Predictive Control of an Irrigation Canal: Event-Driven Versus Time-Driven Approaches. IEEE Transactions on Control Systems Technology, 2015, 23, 1701-1716.	3.2	20
1574	Flatness-based adaptive control (FBAC) for STATCOM. Electric Power Systems Research, 2015, 122, 76-85.	2.1	20
1575	Control Design for Quasi-Linear Hyperbolic Systems With an Application to the Heavy Rope. IEEE Transactions on Automatic Control, 2015, 60, 5-18.	3.6	32

#	Article	IF	CITATIONS
1576	Output feedback control of a mechanical system using magnetic levitation. ISA Transactions, 2015, 57, 352-359.	3.1	25
1577	Closed-form nonlinear tracking controllers for quadrotors with model and input generator uncertainties. Automatica, 2015, 54, 317-324.	3.0	38
1578	A suboptimal and analytical solution to mobile robot trajectory generation amidst moving obstacles. Autonomous Robots, 2015, 39, 1-23.	3.2	14
1579	Passivity-based control of VToL UAVs with a momentum-based estimator of external wrench and unmodeled dynamics. Robotics and Autonomous Systems, 2015, 72, 139-151.	3.0	51
1580	Flatness based control of a ball in tube system. IFAC-PapersOnLine, 2015, 48, 790-795.	0.5	4
1581	Flatness for linear fractional systems with application to a thermal system. Automatica, 2015, 57, 213-221.	3.0	13
1582	Flatness-based active disturbance rejection control for linear systems with unknown time-varying coefficients. International Journal of Control, 2015, 88, 2578-2587.	1.2	18
1583	HF Test Current Injection-Based Self-Sensing Control of PMSM for Low- and Zero-Speed Range Using Two-Degree-of-Freedom Current Control. IEEE Transactions on Industry Applications, 2015, 51, 2268-2278.	3.3	21
1584	A comparison of different control methods for injection valves. , 2015, , .		0
1585	A new adaptive controller for a two-tank-system based on algebraic derivation techniques. , 2015, , .		1
1586	Mathematical Control Theory I. Lecture Notes in Control and Information Sciences, 2015, , .	0.6	3
1587	Optimal sampling-based Feedback Motion Trees among obstacles for controllable linear systems with linear constraints., 2015,,.		8
1589	Classification of twoâ€degreeâ€ofâ€freedom underactuated mechanical systems. IET Control Theory and Applications, 2015, 9, 1501-1510.	1.2	11
1590	Optimal guidance for hypersonic reentry using inversion and receding horizon control. IET Control Theory and Applications, 2015, 9, 1347-1355.	1.2	21
1591	Utility of highâ€order sliding mode differentiators for dynamical left inversion problems. IET Control Theory and Applications, 2015, 9, 538-544.	1.2	1
1592	Higher-order differential feedback control of a flexible-joint manipulator. JVC/Journal of Vibration and Control, 2015, 21, 1976-1986.	1.5	20
1593	Servo-constraint realization for underactuated mechanical systems. Archive of Applied Mechanics, 2015, 85, 1191-1207.	1.2	12
1594	Local path planning for mobile robots based on intermediate objectives. Robotica, 2015, 33, 1017-1031.	1.3	6

#	Article	IF	CITATIONS
1596	Synchronization of Integral and Fractional Order Chaotic Systems. Understanding Complex Systems, 2015, , .	0.3	28
1597	Fractional Order Differentiation and Robust Control Design. Intelligent Systems, Control and Automation: Science and Engineering, 2015, , .	0.3	80
1598	Inducing sustained oscillations in feedback-linearizable single-input nonlinear systems. ISA Transactions, 2015, 54, 117-124.	3.1	13
1599	Collision avoidance strategies for quadrotors in tight formation flying. , 2015, , .		1
1600	An algebraic control approach based on the estimation of an ultra-local Bro¨ıda model. , 2015, , .		0
1601	Study of flatness-based Automatic Generation Control Approach on an NPCC system model. , 2015, , .		10
1602	An optimisation-based path planner for truck-trailer systems with driving direction changes. , 2015, , .		7
1603	Nonlinear supply pressure control for a variable displacement axial piston pump. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 614-624.	0.7	30
1604	Optimal motion planning for differentially flat systems with guaranteed constraint satisfaction. , 2015, , .		6
1605	Global output-feedback path-following control of unicycle-type mobile robots: A level curve approach. Robotics and Autonomous Systems, 2015, 74, 229-242.	3.0	23
1606	Model predictive excitation control for constrained frequency and voltage stabilization. , 2015, , .		4
1607	Flatness based control of nonlinear half-car active suspension system., 2015,,.		0
1608	Trajectory tracking of trirotor UAV with pendulum load., 2015,,.		7
1609	UAV path planning via Legendre pseudospectral method improved by differential flatness. , 2015, , .		0
1610	Ground control of a hybrid tricopter. , 2015, , .		9
1611	Flat trajectory generation for way-points relaxations and obstacle avoidance. , 2015, , .		14
1612	Open Loop Control of Higher Order Systems. Lecture Notes in Control and Information Sciences, 2015, , 1-22.	0.6	0
1613	Fractional Approaches in Path Tracking Design (or Motion Control): Prefiltering, Shaping, and Flatness. Intelligent Systems, Control and Automation: Science and Engineering, 2015, , 237-323.	0.3	0

#	Article	IF	CITATIONS
1614	Distributed control of autonomous multi-agents: A small-gain approach. , 2015, , .		0
1615	Walking Robots. , 2015, , 1537-1548.		0
1616	Linear motion control with a low-power hydraulic switching converter - Part II: Flatness-based control. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 818-828.	0.7	4
1617	Flying inverted pendulum trajectory control on Robust Intelligent Sensing and Control Multi-Agent Analysis Platform. , 2015, , .		6
1618	Improvements on Flat Output Characterization for Fractional Systems. Fractional Calculus and Applied Analysis, 2015, 18, 238-260.	1.2	3
1619	A new approach based on flatness control to improve reliability of parallel connected inverters., 2015,,.		3
1620	Real-time decentralized cooperative robust trajectory planning for multiple UCAVs air-to-ground target attack. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 581-600.	0.7	8
1621	A new approach to trajectory optimization based on direct transcription and differential flatness. Acta Astronautica, 2015, 107, 1-13.	1.7	19
1622	Active Disturbance Rejection Control Applied To A Delta Parallel Robot In Trajectory Tracking Tasks. Asian Journal of Control, 2015, 17, 636-647.	1.9	27
1623	Analysis and Trajectory Tracking Control of a Modular Multilevel Converter. IEEE Transactions on Power Electronics, 2015, 30, 398-407.	5.4	21
1624	Recent progress in an algebraic analysis approach to linear systems. Multidimensional Systems and Signal Processing, 2015, 26, 349-388.	1.7	14
1625	Motion Control of Vehicles with Trailers Using Transverse Function Approach. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 457-479.	2.0	8
1626	Trajectory planning/re-planning for satellite systems in rendezvous mission in the presence of actuator faults based on attainable efforts analysis. International Journal of Systems Science, 2015, 46, 690-701.	3.7	9
1627	Variant and invariant states for chemical reaction systems. Computers and Chemical Engineering, 2015, 73, 23-33.	2.0	58
1628	Partial Stabilization and Control of Distributed Parameter Systems with Elastic Elements. Lecture Notes in Control and Information Sciences, $2015, \ldots$	0.6	12
1629	Flatness-Based Nonlinear Control for Position Tracking of Electrohydraulic Systems. IEEE/ASME Transactions on Mechatronics, 2015, 20, 197-206.	3.7	68
1630	Precise piston trajectory control for a free piston engine. Control Engineering Practice, 2015, 34, 30-38.	3.2	58
1631	Active Disturbance Rejection Control of a Magnetic Suspension System. Asian Journal of Control, 2015, 17, 842-854.	1.9	18

#	Article	IF	CITATIONS
1632	Nonlinear single-loop control of the parallel converters for a fuel cell power source used in DC grid applications. International Journal of Electrical Power and Energy Systems, 2015, 65, 41-48.	3.3	26
1633	Active faultâ€tolerant control system design with trajectory reâ€planning against actuator faults and saturation: Application to a quadrotor unmanned aerial vehicle. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1-23.	2.3	81
1634	Towards an ultra-local model control of two-tank-system. International Journal of Dynamics and Control, 2016, 4, 59-66.	1.5	9
1635	A Linear Active Disturbance Rejection Control for a Ball and Rigid Triangle System. Mathematical Problems in Engineering, 2016, 2016, 1-11.	0.6	13
1636	Integrated framework for constrained minimumâ€time trajectory generation, fault detection and reconfiguration: A caseâ€study. International Journal of Adaptive Control and Signal Processing, 2016, 30, 986-1001.	2.3	1
1637	Robust vibration control of two-mass resonant systems in state space. , 2016, , .		2
1638	On set-point control of a quadrotor-type helicopter with a suspended load., 2016,,.		1
1639	Trajectory tracking and formation controls for a UAV model that incorporates dynamic effects. , 2016, , .		0
1640	Bang-bang optimal control for differentially flat systems using mapped pseudospectral method and analytic homotopic approach. Optimal Control Applications and Methods, 2016, 37, 1217-1235.	1.3	4
1641	Adaptive tracking of sinusoids with unknown frequencies for some classes of SISO nonâ€minimum phase systems. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1163-1183.	2.3	6
1642	Model-free immune therapy: A control approach to acute inflammation. , 2016, , .		7
1643	Motion-planning with linear temporal logic specifications for a nonholonomic vehicle kinematic model. , 2016, , .		4
1644	Flat filtering: A classical approach to robust control of nonlinear systems. , 2016, , .		11
1645	A practical design method of flat outputs for nonlinear control systems. Transactions of the JSME (in) Tj ETQq $1\ 1$	0.784314	rgBT /Overl
1646	Motion and anti-swing control of underactuated bridge cranes using differential flatness. , 2016, , .		4
1647	Feedback control for steering support system based on flatness and particle swarm optimization. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0023-JAMDSM0023.	0.3	2
1648	Efficient total least squares state and parameter estimation for differentially flat systems. , 2016, , .		3
1649	Aggressive Flight With Quadrotors for Perching on Inclined Surfaces. Journal of Mechanisms and Robotics, 2016, 8, .	1.5	68

#	Article	IF	CITATIONS
1650	Trajectory tracking control based on improved particle swarm optimization. , 2016, , .		0
1651	Robust control of flat systems using sliding mode approach. , 2016, , .		2
1652	Modelling and flatness-based motion planning for an interconnected flexible beam structure. , 2016, , .		2
1653	Constrained autonomous satellite docking via differential flatness and model predictive control. , 2016, , .		10
1654	The minimum jerk trajectory generation of a quadrotor based on the differential flatness. , 2016, , .		1
1655	Dynamic modeling and controller design of an omniwheel mobile platform by differential parameterization., 2016,,.		1
1656	Fuel cells, batteries and super-capacitors stand-alone power systems management using optimal/flatness based-control. AIP Conference Proceedings, 2016 , , .	0.3	3
1657	Determining Minimum and Maximum Number of Agents Required for Planar Cable-Suspended Aerial Manipulation. , 2016, , .		1
1658	Flatness for a strongly degenerate 1-D parabolic equation. Mathematics of Control, Signals, and Systems, 2016, 28, 1.	1.4	11
1659	Flatness of two-input control-affine systems linearizable via a two-fold prolongation. , 2016, , .		7
1660	Ackerman Mobile Robot with Arm. , 2016, , .		3
1661	An Active Disturbance Rejection controller design for the robust position control of Series Elastic Actuators. , 2016 , , .		8
1662	Control of non holonomic or under-actuated mechanical systems: The examples of the unicycle robot and the slider. ESAIM - Control, Optimisation and Calculus of Variations, 2016, 22, 983-1016.	0.7	5
1663	Orbital stabilization of a VToL UAV for landing on oscillating platforms. , 2016, , .		1
1664	Unimodular completion and direct flat representation in the context of differential flatness. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 807-808.	0.2	8
1665	Orbital flatness of a class of single-input control systems. , 2016, , .		0
1666	Exact plant inversion of flexible motion systems with a time-varying state-to-output map., 2016,,.		10
1667	Nonlinear Tracking Control of a Pneumatically Actuated Lung Tumour Mimic Model. IFAC-PapersOnLine, 2016, 49, 71-76.	0.5	4

#	Article	IF	CITATIONS
1668	Construction of Flat Outputs of Nonlinear Discrete-Time Systems in a Geometric and an Algebraic Framework. IFAC-PapersOnLine, 2016, 49, 796-801.	0.5	12
1669	Properties of Flat Systems with regard to the Parameterization of the System Variables by the Flat Output. IFAC-PapersOnLine, 2016, 49, 814-819.	0.5	4
1670	Zur systematischen Bestimmung flacher AusgÄ n ge nichtlinearer MehrgrĶğensysteme. Automatisierungstechnik, 2016, 64, 948-960.	0.4	5
1671	Linear State Feedback Regulation of a Furuta Pendulum: Design Based on Differential Flatness and Root Locus. IEEE Access, 2016, 4, 8721-8736.	2.6	28
1672	On the Linear Control of Underactuated Nonlinear Systems Via Tangent Flatness and Active Disturbance Rejection Control: The Case of the Ball and Beam System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	13
1673	The control of drilling vibrations: A coupled PDE-ODE modeling approach. International Journal of Applied Mathematics and Computer Science, 2016, 26, 335-349.	1.5	32
1674	A robust state-space controller design for multi-mass resonant systems. , 2016, , .		1
1675	Trajectory Tracking Control for a Differential Drive Wheeled Mobile Robot Considering the Dynamics Related to the Actuators and Power Stage. IEEE Latin America Transactions, 2016, 14, 657-664.	1.2	43
1676	FDI and FTC technique based on Thau observer and flatness theory for a quadrotor. , 2016, , .		2
1677	Asymptotically optimal sampling-based kinodynamic planning. International Journal of Robotics Research, 2016, 35, 528-564.	5.8	158
1678	Observation and output adaptive tracking for a class of nonlinear non-minimum phase systems. International Journal of Control, 2016, 89, 1807-1820.	1,2	6
1679	Decentralized multi-robot encirclement of a 3D target with guaranteed collision avoidance. Autonomous Robots, 2016, 40, 245-265.	3.2	77
1680	Motion Planning and Obstacle Avoidance. Springer Handbooks, 2016, , 1177-1202.	0.3	57
1681	Graphical characterization of the set of all flat outputs for structured linear discrete-time systems. IFAC-PapersOnLine, 2016, 49, 19-24.	0.5	3
1682	Obstacle avoidance via B-spline parametrizations of flat trajectories. , 2016, , .		10
1683	Dual loop controllers using PI, sliding mode and flatness controls applied to low voltage converters for fuel cell applications. International Journal of Hydrogen Energy, 2016, 41, 19154-19163.	3.8	34
1684	Output feedback dynamic tracking excitation control of synchronous generators. IET Generation, Transmission and Distribution, 2016, 10, 3041-3049.	1.4	5
1685	State-dependent sliding mode observer for an electro-pneumatic clutch. , 2016, , .		1

#	Article	IF	CITATIONS
1686	Flatness-based control method: A review of its applications to power systems. , 2016, , .		11
1687	Discrete-time flatness-based control for a twin rotor helicopter with an Extended Kalman filter. , 2016, , .		3
1688	On the reduction of vibration of parallel robots using flatness-based control and adaptive inputshaping. , $2016, , .$		3
1689	Cascaded control design for the tracking control of a hydrostatic transmission based on a sliding mode state and disturbance observer. , 2016, , .		1
1690	Nonlinear modelling and sliding mode control of a piezo-hydraulic valve system. , 2016, , .		7
1691	Flatness of a class of linear Volterra partial integro–differential equations. IFAC-PapersOnLine, 2016, 49, 174-179.	0.5	6
1692	Some remarks on wheeled autonomous vehicles and the evolution of their control design**Work partially supported by the French national project IN-OVE/ANR 2010 BLANC 308 IFAC-PapersOnLine, 2016, 49, 199-204.	0.5	4
1693	LPV/H â^ž suspension robust control adaption of the dynamical lateral load transfers based on a differential algebraic estimation approach. IFAC-PapersOnLine, 2016, 49, 440-447.	0.5	3
1694	Modeling and Control of Wheeled Mobile Robots. Springer Handbooks, 2016, , 1235-1266.	0.3	19
1695	Online optimisationâ€based backstepping control design with application to quadrotor. IET Control Theory and Applications, 2016, 10, 1601-1611.	1.2	39
1696	Robots with Flexible Elements. Springer Handbooks, 2016, , 243-282.	0.3	82
1697	Linear robust Generalized Proportional Integral Control of a ball and beam system for trajectory tracking tasks., 2016,,.		4
1698	Stability and stabilization of permanent magnet synchronous machine fed by Quasi-Z-source inverter. EPE Journal (European Power Electronics and Drives Journal), 2016, 26, 21-29.	0.7	1
1699	Optimal trajectory generation of a quadrotor based on the differential flatness. , 2016, , .		4
1700	Efficient computation of system-specific motion commands for serial and parallel robots based on differential flatness. , 2016 , , .		0
1701	Nonlinear Flatness-Based Control of Driveline Oscillations for a Powertrain with Backlash Traversing. IFAC-PapersOnLine, 2016, 49, 749-755.	0.5	11
1702	Flatness-based feedforward control of polymer electrolyte membrane fuel cell gas conditioning system. International Journal of Hydrogen Energy, 2016, 41, 17526-17538.	3.8	3
1703	Flatness-based Trajectory Planning for the Battery State of Charge in Hybrid Electric Vehicles. IFAC-PapersOnLine, 2016, 49, 134-140.	0.5	2

#	Article	IF	CITATIONS
1704	Robust flat filtering DSP based control of the boost converter. Control Theory and Technology, 2016, 14, 224-236.	1.0	13
1705	Stator-flux-linkage-referenced control and online optimization of a doubly-fed induction generator. , 2016, , .		0
1706	Real-time closed-loop control for micro mirrors with quasistatic comb drives. Proceedings of SPIE, 2016, , .	0.8	2
1707	Efficient collision-free path planning for autonomous underwater vehicles in dynamic environments with a hybrid optimization algorithm. Ocean Engineering, 2016, 127, 190-199.	1.9	54
1708	Flatness-based trajectory optimization for spacecraft proximity relative motion in elliptic orbits. , $2016, , .$		0
1709	Rigid formation control for a group of UAVs with augmented models that account for input generator dynamics. , 2016, , .		1
1710	Trajectory tracking control based on differential flatness. , 2016, , .		3
1711	Interval methods for variable-structure control of dynamic systems with state constraints., 2016,,.		3
1712	Flatness based control of a high-speed saturable permanent magnet synchronous machine. , 2016, , .		2
1713	PID-type fuzzy scaling factors tuning using genetic algorithm and Simulink Design Optimization for Electronic Throttle Valve. , 2016, , .		8
1714	Real-time decentralized flatness-based control of dynamic supply chain systems. , 2016, , .		8
1715	Experimental comparison of new adaptive PI controllers based on the ultra-local model parameter identification. International Journal of Control, Automation and Systems, 2016, 14, 1520-1527.	1.6	10
1716	Differentially flatness active disturbance rejection control approach via algebraic parameter identification to double tank problem., 2016,,.		1
1717	Wiggling through complex traffic: Planning trajectories constrained by predictions. , 2016, , .		20
1718	Trajectory tracking control of a four-wheel-steering car based on differential flatness and ADRC. , 2016, , .		0
1719	Holonomic modeling and hierarchic tracking control of an unstable underactuated nonholonomic system., 2016,,.		0
1720	Modeling of biaxial gimbal-less MEMS scanning mirrors. , 2016, , .		0
1721	The role of vision in perching and grasping for MAVs. Proceedings of SPIE, 2016, , .	0.8	3

#	Article	IF	CITATIONS
1722	Simplified single-loop full-flatness control of a hybrid power plant. , 2016, , .		3
1723	Characteristics analysis and stabilization of a planar 2R underactuated manipulator. Robotica, 2016, 34, 584-600.	1.3	22
1724	Two-Level Control of Doubly Fed Induction Generator Using Flatness-Based Approach. IEEE Transactions on Power Systems, 2016, 31, 518-525.	4.6	17
1725	A Continuous Robust Antiswing Tracking Control Scheme for Underactuated Crane Systems With Experimental Verification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	21
1726	G3-Continuous Trajectory Design For Fixed-Wing Aircraft Based On 6-DoF Kinematics. , 2016, , .		2
1727	Multi-input control-affine systems static feedback equivalent to a triangular form and their flatness. International Journal of Control, 2016, 89, 1-24.	1.2	91
1728	Efficiency Improvement of a Quasi-Z-Source Inverter-Fed Permanent-Magnet Synchronous Machine-Based Electric Vehicle. IEEE Transactions on Transportation Electrification, 2016, 2, 14-23.	5.3	52
1729	The Effect of Shapes in Input-State Linearization for Stabilization of Nonprehensile Planar Rolling Dynamic Manipulation. IEEE Robotics and Automation Letters, 2016, 1, 492-499.	3.3	16
1730	A Computationally Efficient Approach for Optimizing Lithium-Ion Battery Charging. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	48
1731	Lateral Path Tracking Control of Autonomous Land Vehicle Based on ADRC and Differential Flatness. IEEE Transactions on Industrial Electronics, 2016, 63, 3091-3099.	5.2	191
1732	Polynomial matrix approach to tracking control of nonâ€linear systems. IET Control Theory and Applications, 2016, 10, 477-483.	1.2	1
1733	Two-input control-affine systems linearizable via one-fold prolongation and their flatness. European Journal of Control, 2016, 28, 20-37.	1.6	13
1734	Robust disturbance rejection control of a biped robotic system using high-order extended state observer. ISA Transactions, 2016, 62, 276-286.	3.1	43
1735	Adaptive Backstepping-Flatness Control Based on an Adaptive State Observer for a Torque Tracking Electrohydraulic System. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2440-2452.	3.7	25
1736	On Trajectory Planning, Backstepping Controller Design and Sliding Modes in Active Front-Ends. IEEE Transactions on Power Electronics, 2016, 31, 6044-6056.	5.4	20
1737	Index reduction by minimal extension for the inverse dynamics simulation of cranes. Multibody System Dynamics, 2016, 36, 295-321.	1.7	17
1738	Nonlinear model predictive control of a wave energy converter based on differential flatness parameterisation. International Journal of Control, 2017, 90, 68-77.	1.2	37
1739	Reliability Improvement Approach Based on Flatness Control of Parallel-Connected Inverters. IEEE Transactions on Power Electronics, 2017, 32, 681-692.	5.4	18

#	Article	IF	CITATIONS
1740	On ramp metering: towards a better understanding of ALINEA via model-free control. International Journal of Control, 2017, 90, 1018-1026.	1.2	50
1741	Nonlinear Systems. Lecture Notes in Control and Information Sciences, 2017, , .	0.6	4
1742	Introduction, mathematical modelling and motion control of the novel pneumatic textile actuator. International Journal of Fluid Power, 2017, 18, 92-101.	0.7	0
1743	Minimum-Time Reconfiguration Maneuvers of Satellite Formations Using Perturbation Forces. Journal of Guidance, Control, and Dynamics, 2017, 40, 1130-1143.	1.6	26
1744	Design and Optimal Control of an Underactuated Cable-Driven Micro–Macro Robot. IEEE Robotics and Automation Letters, 2017, 2, 896-903.	3.3	25
1745	A Sequential Algebraic Parametric Identification Approach for Nonlinear Vibrating Mechanical Systems. Asian Journal of Control, 2017, 19, 1564-1574.	1.9	9
1746	Analysis of stable model inversion methods for constrained underactuated mechanical systems. Mechanism and Machine Theory, 2017, 111, 99-117.	2.7	27
1747	Longitudinal tunnel ventilation control. Part 1: Modelling and dynamic feedforward control. Control Engineering Practice, 2017, 63, 91-103.	3.2	10
1748	Regularity and Lyapunov Stabilization of Weak Entropy Solutions to Scalar Conservation Laws. IEEE Transactions on Automatic Control, 2017, 62, 1620-1635.	3.6	27
1749	Double voltage step-up photovoltaic microinverter. , 2017, , .		6
1750	Trajectory planning and tracking control for the temperature distribution in a deep drawing tool. Control Engineering Practice, 2017, 64, 127-139.	3.2	12
1751	Robust Trajectory Tracking Control of Multimass Resonant Systems in State Space. IEEE Transactions on Industrial Electronics, 2017, 64, 9366-9377.	5.2	20
1752	Integrated vehicle control through the coordination of longitudinal/lateral and vertical dynamics controllers: Flatness and LPV/â€based design. International Journal of Robust and Nonlinear Control, 2017, 27, 4992-5007.	2.1	24
1753	Transactions on Engineering Technologies. , 2017, , .		0
1754	Dynamics, Control, and Estimation for Aerial Robots Tethered by Cables or Bars. IEEE Transactions on Robotics, 2017, 33, 834-845.	7.3	50
1755	Observability and Controllability Study of a Household Refrigerator Exposed to an Outdoor Cold Airflow Using Bond Graph Approach. International Journal of Air-Conditioning and Refrigeration, 2017, 25, 1750001.	0.8	8
1756	Time-optimal flatness based control of a gantry crane. Control Engineering Practice, 2017, 60, 18-27.	3.2	46
1757	An Extended Differential Flatness Approach for the Health-Conscious Nonlinear Model Predictive Control of Lithium-Ion Batteries. IEEE Transactions on Control Systems Technology, 2017, 25, 1882-1889.	3.2	44

#	Article	IF	CITATIONS
1758	High-Gain-Observer-Based Integral Sliding Mode Control for Position Tracking of Electrohydraulic Servo Systems. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2695-2704.	3.7	76
1759	Reliable nonlinear control for quadcopter trajectory tracking through differential flatness. IFAC-PapersOnLine, 2017, 50, 6971-6976.	0.5	23
1760	Nonlinear State and Parameter Estimation using Discrete-Time Double Kalman Filter. IFAC-PapersOnLine, 2017, 50, 11632-11638.	0.5	5
1761	Distributed MPC for multi-vehicle systems moving in formation. Robotics and Autonomous Systems, 2017, 97, 144-152.	3.0	63
1762	Tracking control for a long pneumatic transmission line. , 2017, , .		1
1763	Towards adaptive and efficient bottling plants in a cyber physical production system environment. , 2017, , .		4
1764	The kinematic bicycle model: A consistent model for planning feasible trajectories for autonomous vehicles?. , $2017, \dots$		201
1765	String stability of a group of nonholonomic mobile robots whose models incorporate kinematic and dynamic equations of motion. , 2017, , .		1
1766	Formation control and string stability of a group of kinematic vehicles with front-steering wheels., 2017, , .		1
1767	A survey of differential flatness-based control applied to renewable energy sources. , 2017, , .		4
1768	Robustness of a flatness based controller against parametric uncertainties for a class of under-actuated planar manipulators. , 2017, , .		2
1769	Flatness based angle control with augmented observer for electric power steering in autonomous vehicles. , 2017, , .		4
1770	Two approaches for nonlinear control of wheeled mobile robots., 2017,,.		3
1772	Flatness of Multi-Input Control-Affine Systems Linearizable via One-Fold Prolongation. SIAM Journal on Control and Optimization, 2017, 55, 3171-3203.	1.1	24
1773	Inverse dynamics and energy optimal trajectories for a wheeled mobile robot. International Journal of Mechanical Sciences, 2017, 134, 576-588.	3.6	10
1774	A novel approach for dynamic gas conditioning for PEMFC stack testing. International Journal of Hydrogen Energy, 2017, 42, 28898-28909.	3.8	9
1775	Sub-Riemannian Curvature of Carnot Groups with Rank-Two Distributions. Journal of Dynamical and Control Systems, 2017, 23, 779-814.	0.4	2
1776	Rapid Path Planning for Zero Propellant Maneuvers Based on Flatness. Journal of Aerospace Engineering, 2017, 30, .	0.8	3

#	Article	IF	CITATIONS
1777	A Unified Robust Motion Controller Design for Series Elastic Actuators. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2229-2240.	3.7	47
1778	Simulation of multibody systems with servo constraints through optimal control. Multibody System Dynamics, 2017, 40, 75-98.	1.7	12
1779	Differential-flatness-based finite-time anti-swing control of underactuated crane systems. Nonlinear Dynamics, 2017, 87, 1749-1761.	2.7	75
1780	Trajectory planning and trajectory tracking for a small-scale helicopter in autorotation. Control Engineering Practice, 2017, 58, 88-106.	3.2	16
1781	Constrained anti-disturbance control for a quadrotor based on differential flatness. International Journal of Systems Science, 2017, 48, 1182-1193.	3.7	11
1782	Leader following trajectory planning: A trailer-like approach. Automatica, 2017, 75, 77-87.	3.0	11
1783	Experimental validation of differential flatness-based control applied to stand alone using photovoltaic/fuel cell/battery hybrid power sources. International Journal of Hydrogen Energy, 2017, 42, 1510-1517.	3.8	11
1784	PLC-Based Real-Time Realization of Flatness-Based Feedforward Control for Industrial Compression Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 1323-1331.	5. 2	18
1785	Endogenous Configuration Space Approach: An Intersection of Robotics and Control Theory. Lecture Notes in Control and Information Sciences, 2017, , 209-234.	0.6	7
1786	Building energy consumption flatness-based control using algebraic on-line estimation. Energy Efficiency, 2017, 10, 657-671.	1.3	3
1787	Uniform Stabilization of Nonlinear Systems With Arbitrary Switchings and Dynamic Uncertainties. IEEE Transactions on Automatic Control, 2017, 62, 2207-2222.	3.6	29
1788	Efficient Generation of Fast Trajectories for Gantry Cranes with Constraints. IFAC-PapersOnLine, 2017, 50, 1937-1943.	0.5	4
1789	Trajectory tracking disturbance rejection controller for a state constrained biped robot., 2017,,.		0
1790	Experimental validation of flatness control for path planning and tracking for a quadrotor., 2017,,.		1
1791	A robust force controller design for series elastic actuators. , 2017, , .		6
1793	Collision-free trajectory planning for overtaking on highways. , 2017, , .		4
1794	Gaussian trajectories in motion control for camless engines. , 2017, , .		0
1795	Flat-RRT*: A sampling-based optimal trajectory planner for differentially flat vehicles with constrained dynamics 1 1Research was supported by the European Commission, H2020, under the project UnCoVerCPS, grant number 643921 IFAC-PapersOnLine, 2017, 50, 6965-6970.	0.5	7

#	Article	IF	Citations
1796	Flatness based control and tracking control based on nonlinearity measures. IFAC-PapersOnLine, 2017, 50, 8250-8255.	0.5	6
1797	Design of Self-Synchronizing Stream Ciphers: a New Control-Theoretical Paradigm. IFAC-PapersOnLine, 2017, 50, 11583-11588.	0.5	3
1798	A dynamic programming MPC approach for automatic driving along tracks and its realization with online steering controllers * *This material is partly based upon work supported by the Air Force Office of Scientific Research, Air Force Materiel Command, USAF, under Award No, FA9550-14-11-0298 IFAC-PapersOnLine, 2017, 50, 8686-8691.	0.5	0
1799	results has received funding from the Swedish Science Foundation (SSF) project â€Semantic mapping and visual navigation for smart robots―(RIT15-0038). Dept. of Automatic Control, LTH, Lund University, SE-221 00 Lund, Sweden. The authors are members of the Lund Center for Control of Complex Engineering Systems (LCCC) funded by the Swedish Research Council (VR) and the Excellence Center	0.5	5
1800	Link Afping - Lund in Inform, IFAC-PapersOnLine, 2017, 50, 11670-11676. Anti-Jerk Control of a Parallel Hybrid Electrified Vehicle with Dead Time. IFAC-PapersOnLine, 2017, 50, 966-971.	0.5	6
1801	Solution of a Terminal Control Problem under State Constraints. IFAC-PapersOnLine, 2017, 50, 10679-10684.	0.5	8
1802	Finite-Time Stabilization of Longitudinal Control for Autonomous Vehicles via a Model-Free Approach * *This work was supported by the international Chair MINES Paris-Tech - Peugeot-Citroën - Safran - Valeo on ground vehicle automation and the ANR project 15 CE23 0007 (Project Finite4SoS). IFAC-PapersOnLine, 2017, 50, 12533-12538.	0.5	10
1803	Nonlinear Model-Predictive Optimal Control of an Active Cell-to-Cell Lithium-Ion Battery Pack Balancing Circuit. IFAC-PapersOnLine, 2017, 50, 14483-14488.	0.5	19
1804	Total Least Squares State of Charge Estimation for Lithium-Ion Batteries: An Efficient Moving Horizon Estimation Approach. IFAC-PapersOnLine, 2017, 50, 14489-14494.	0.5	6
1805	Position Tracking Control for an Aerial Robot Passively Tethered to an Independently Moving Platform * *This work has been partially funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 644271 AEROARMS IFAC-PapersOnLine, 2017, 50, 1069-1074.	0.5	10
1806	Modeling and Control of the Oxygen Concentration in a Post Combustion Chamber of a Gas-Fired Furnace * *The authors kindly express their gratitude to the industrial research partner voestalpine Stahl GmbH IFAC-PapersOnLine, 2017, 50, 13766-13771.	0.5	0
1807	State and Unknown Inputs Finite Time Estimation for Time-Varying Nonlinear Lipschitz Systems with Uncertain Disturbances * *This work is supported by Russian Fund of Basic Research, grants No. 15-08-05575. IFAC-PapersOnLine, 2017, 50, 1439-1444.	0.5	6
1808	Online-trajectory planning for state- and input-constrained linear SISO systems using a switched state variable filter. IFAC-PapersOnLine, 2017, 50, 2639-2644.	0.5	4
1809	Spectral Shift of Cylindrical Heat Equations by Full-State Boundary Feedback. IFAC-PapersOnLine, 2017, 50, 7109-7114.	0.5	1
1810	Interval-Based Implementation of Robust Variable-Structure and Backstepping Controllers of Single-Input Single-Output Systems. IFAC-PapersOnLine, 2017, 50, 6283-6288.	0.5	3
1811	Reglerentwurf mittels exakter Linearisierung. , 2017, , 113-221.		0
1812	Beobachterentwurf mittels exakter bzw. nÃ # erungsweiser Linearisierung der Fehlerdynamik. , 2017, , 319-368.		0
1813	Geometric Methods in Analysis and Control of Implicit Differential Systems. Journal of the Indian Institute of Science, 2017, 97, 391-411.	0.9	0

#	Article	IF	Citations
1814	Trajectory generation with communication-induced constraints for surface vehicles., 2017,,.		3
1815	Energy saving for building heating via a simple and efficient model-free control design: First steps with computer simulations. , 2017, , .		10
1816	Integration of output tracking and trajectory generation via analytic left inversion., 2017,,.		4
1817	A mixed algebraic/graph-oriented approach for flatness of SISO LPV discrete-time systems. , 2017, , .		О
1818	Kernel-based adaptive multiple model target tracking. , 2017, , .		3
1819	Ship course control based on differential flatness and sliding mode. , 2017, , .		1
1820	Group control and string stability for UAV kinematic and dynamic models. , 2017, , .		1
1821	Flatness approach and its application to distributed parameter systems. , 2017, , .		0
1822	Energy-Aware Aircraft Trajectory Generation Using Pseudospectral Methods with Differential Flatness., 2017,,.		2
1823	Flatness based control of multicellular power converter feeding DC motor. , 2017, , .		0
1824	Vision-based minimum-time trajectory generation for a quadrotor UAV. , 2017, , .		29
1825	Static smooth path-following control Lyapunov function design via minimum projection method. , 2017, , .		0
1826	Robust control for pseudolinear systems utilizing robust pole assignment controller, quasi-similarity transformation and an approximate feedback linearization. , 2017, , .		3
1827	Online optimal active sensing control. , 2017, , .		12
1828	Merging Flatness, GPI Observation, and GPI Control with ADRC. , 2017, , 51-107.		0
1829	Control of Mobile Robots with Bounded Inputs in a Rigid Formation. Solid State Phenomena, 0, 260, 38-44.	0.3	0
1830	Differential Flatness-Based Control of Current/Voltage Stabilization for a Single-Phase PFC with Multiphase Interleaved Boost Converters. , 2017, , .		9
1831	Putting gravity in control. Journal of Physics: Conference Series, 2017, 831, 012006.	0.3	0

#	Article	IF	CITATIONS
1832	Autonomous Path Planning for Road Vehicles in Narrow Environments: An Efficient Continuous Curvature Approach. Journal of Advanced Transportation, 2017, 2017, 1-27.	0.9	14
1833	Coordinated Control of Multi-Robot Systems: A Survey. SICE Journal of Control Measurement and System Integration, 2017, 10, 495-503.	0.4	117
1834	Control of a Two-Phase Interleaved Boost Converter with Input LC Filter for Fuel Cell Vehicle Applications. , 2017, , .		2
1835	Necessary and sufficient conditions for linear strong structural controllability and observability of $\langle i\rangle n\langle i\rangle$ and an Applications, 2017, 11, 1873-1883.	1.2	4
1836	Double-Sided kernel observer for linear time-varying systems. , 2017, , .		5
1837	Design of adaptive PID controllers based on adaptive Smith predictor for ultra-local model control. International Journal of Automation and Control, 2017, 11, 222.	0.3	12
1838	Control design approaches for parallel robot manipulators: a review. International Journal of Modelling, Identification and Control, 2017, 28, 199.	0.2	16
1840	Inverse-Dynamics Particle Swarm Optimization for Spacecraft Minimum-Time Slew Maneuvers with Constraints. Aerotecnica Missili & Spazio, 2017, 96, 111-123.	0.5	2
1841	Nonlinear Control., 2017,, 505-546.		0
1842	The Challenging Case of Underactuated Systems. , 2017, , 235-284.		0
1843	Aerial Manipulation: A Literature Review. IEEE Robotics and Automation Letters, 2018, 3, 1957-1964.	3.3	328
1844	On the optimal passive formation reconfiguration by using attitude control. Acta Astronautica, 2018, 153, 259-273.	1.7	9
1845	Optimal Motion Planning for Differentially Flat Systems Using Bernstein Approximation. , 2018, 2, 181-186.		29
1846	Intrinsic and apparent singularities in differentially flat systems, and application to global motion planning. Systems and Control Letters, 2018, 113, 117-124.	1.3	12
1847	On a linear input–output approach for the control of nonlinear flat systems. International Journal of Control, 2018, 91, 2131-2146.	1.2	5
1848	Time-Suboptimal Satellite Formation Maneuvers Using Inverse Dynamics and Differential Evolution. Journal of Guidance, Control, and Dynamics, 2018, 41, 1108-1121.	1.6	4
1849	Toward a model-free feedback control synthesis for treating acute inflammation. Journal of Theoretical Biology, 2018, 448, 26-37.	0.8	39
1850	Toward Aerial Physical Locomotion: The Contact-Fly-Contact Problem. IEEE Robotics and Automation Letters, 2018, 3, 1514-1521.	3.3	9

#	Article	IF	CITATIONS
1851	Inverse dynamics particle swarm optimization applied to constrained minimum-time maneuvers using reaction wheels. Aerospace Science and Technology, 2018, 75, 1-12.	2.5	17
1852	Particle Swarm with Domain Partition and Control Assignment for Time-Optimal Maneuvers. Journal of Guidance, Control, and Dynamics, 2018, 41, 968-977.	1.6	4
1853	Nonlinear control for underactuated multi-rope cranes: Modeling, theoretical design and hardware experiments. Control Engineering Practice, 2018, 76, 123-132.	3.2	11
1854	Feedback Control of a Motorized Skateboard. IEEE Transactions on Automatic Control, 2018, , 1-1.	3.6	1
1855	Flatness-based feedforward control design and two-degrees-of-freedom tracking control for semilinear plug flow reactors. Journal of Process Control, 2018, 64, 132-140.	1.7	1
1856	Controllability of the 1D Schrödinger equation using flatness. Automatica, 2018, 91, 208-216.	3.0	9
1857	Flatness-based open-loop and closed-loop control for electrostatic quasi-static microscanners using jerk-limited trajectory design. Mechatronics, 2018, 56, 318-331.	2.0	29
1858	Adaptive Trajectory Tracking for Quadrotor MAVs in Presence of Parameter Uncertainties and External Disturbances. IEEE Transactions on Control Systems Technology, 2018, 26, 248-254.	3.2	87
1859	Real-time trajectory control of an overhead crane using servo-constraints. Multibody System Dynamics, 2018, 42, 1-17.	1.7	19
1860	An Efficient Model-Free Setting for Longitudinal and Lateral Vehicle Control: Validation Through the Interconnected Pro-SiVIC/RTMaps Prototyping Platform. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 461-475.	4.7	51
1861	Rest-to-Rest Trajectory Planning for Planar Underactuated Cable-Driven Parallel Robots. Mechanisms and Machine Science, 2018, , 207-218.	0.3	7
1862	Adaptive extended state observer-based flatness nonlinear output control for torque tracking of electrohydraulic loading system. Transactions of the Institute of Measurement and Control, 2018, 40, 2999-3009.	1.1	18
1863	Postâ€disaster assessment with unmanned aerial vehicles: A survey on practical implementations and research approaches. Journal of Field Robotics, 2018, 35, 459-490.	3.2	39
1864	Data-driven model-free slip control of anti-lock braking systems using reinforcement Q-learning. Neurocomputing, 2018, 275, 317-329.	3.5	60
1865	Autonomous navigation of micro aerial vehicles using high-rate and low-cost sensors. Autonomous Robots, 2018, 42, 1263-1280.	3.2	36
1866	Intuitive dynamic modeling and flatness-based nonlinear control of a mobile robot. Simulation, 2018, 94, 797-820.	1.1	16
1867	Robust Flat Filtering Control of a Nonlinear Manipulator-Direct Current Motor System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	5
1868	Fast trajectory tracking based on flatness control for a high voltage AC-DC-AC power system. , 2018, , .		0

#	Article	IF	CITATIONS
1869	Hybrid force/position approach for flexible-joint robot with Fuzzy-Sliding mode control. , 2018, , .		0
1870	Flatness-Based Model Predictive Control for Quadrotor Trajectory Tracking. , 2018, , .		32
1871	Computing the admissible reference state-trajectories for differentially non-flat kinematics of non-Standard N-Trailers. , $2018, \dots$		1
1872	Prioritization-based switched feedback control for linear SISO systems with time-varying state and input constraints. , 2018, , .		1
1873	Very high speed flatness based current control for a Permanent Magnet Synchronous Motor : Application on internal combustion engines electrification. , 2018, , .		0
1874	Flatness-based model predictive control of linear diffusion-convection-reaction processes., 2018,,.		4
1875	Adaptive Observer for Motorcycle State Estimation and Tire Cornering Stiffness Identification. , 2018, , .		3
1876	A Time-optimal Trajectory Generation Algorithm for Quadrotors with Various States Constraints. , 2018, , .		0
1877	Trajectory Planning for Heterogeneous Robot Teams. , 2018, , .		20
1878	Feedforward Control for Non-Minimumphase Local Model Networks Using Model Following Control. , 2018, , .		3
1879	Convertible aircraft dynamic modelling and flatness analysis ⎠âŽThis paper has been supported by the French Agence Nationale de la Recherche (ANR), MICA project IFAC-PapersOnLine, 2018, 51, 25-30.	0.5	3
1880	Efficient piecewise-affine coupled-system feed-forward control of a nonlinear elastomer coupling ⎠âŽThis paper has been partially funded by Austrian Research Promotion (FFG) project 850737 IFAC-PapersOnLine, 2018, 51, 861-866.	0.5	1
1881	Active Disturbance Rejection and PID Control of a One-stage Refrigeration Cycle. IFAC-PapersOnLine, 2018, 51, 444-449.	0.5	8
1882	Flatness-based nonlinear control of a three-dimensional gantry crane. IFAC-PapersOnLine, 2018, 51, 331-336.	0.5	8
1883	Robust exact linearization of a 2D overhead crane. IFAC-PapersOnLine, 2018, 51, 354-359.	0.5	5
1884	Tracking Control of Networked and Interconnected Systems. IFAC-PapersOnLine, 2018, 51, 40-45.	0.5	11
1885	Secure communication with the help of flat inputs for chaotic systems. IFAC-PapersOnLine, 2018, 51, 109-114.	0.5	6
1886	Mobile Robot Control Using Bond Graph and Flatness Based Approach. Procedia Computer Science, 2018, 133, 213-221.	1.2	4

#	Article	IF	Citations
1887	Local Minimum Connection for Static Smooth Control Lyapunov Function. IFAC-PapersOnLine, 2018, 51, 272-278.	0.5	2
1888	Distributed Formation Control of Fixed-Wing Aerial Vehicles. , 2018, , .		1
1889	Modeling and Control of Distrubuted Power Network by Application the Flatness Control in the Smart Grid. SSRN Electronic Journal, 0, , .	0.4	0
1890	Trajectory optimisation of six degree of freedom aircraft using differential flatness. Aeronautical Journal, 2018, 122, 1788-1810.	1.1	11
1891	Nonlinear Control of Flat Systems Using a Non-Flat Output with Dynamic Extension. , 2018, , .		5
1892	On the Computation of Differentially Flat Inputs. , 2018, , .		5
1893	Model Predictive Control for Switching Gain Adaptation in a Sliding Mode Controller of a DC Drive with Nonlinear Friction. , 2018 , , .		4
1894	Vibration Suppression of CDPRs Based on Differential Flatness. , 2018, , .		1
1895	A Time-Warping Transformation for Time-Optimal Movement in Differentially Flat Systems. , 2018, , .		1
1896	Liquid Level Tracking Control of Three-tank Systems. , 2018, , .		3
1897	Model based control of a high precision dual gantry platform with elastic cross coupling. , 2018, , .		0
1898	Performances comparison between ultra-local model control, integral sliding mode control and PID control for a coupled tanks system. International Journal of Modelling, Identification and Control, 2018, 30, 219.	0.2	4
1899	New flatnessâ€based control of a highâ€voltage generator for medical Xâ€ray applications. Journal of Engineering, 2018, 2018, 1799-1805.	0.6	1
1900	Dissipated energy minimization for an electro-mechanical elevator of a DC microgrid., 2018,,.		0
1901	Flatness-based and Super-Twisting Controllers of Output Series Interleaved Boost Converter for Fuel Cell Applications., 2018,,.		6
1902	Second-Order Sliding Mode Control with State and Disturbance Estimation for a Permanent Magnet Linear Motor., 2018,,.		2
1903	Optimal Active Sensing with Process and Measurement Noise. , 2018, , .		13
1904	Data-driven MIMO model-free reference tracking control with nonlinear state-feedback and fractional order controllers. Applied Soft Computing Journal, 2018, 73, 992-1003.	4.1	18

#	Article	IF	CITATIONS
1905	Flatness based control of single phase multicellular shunt active power filter for power quality improvement. , $2018, , .$		5
1906	Comparison of Estimator-Based Compensation Schemes for Hydrostatic Transmissions with Uncertainties. , 2018, , .		6
1907	Sliding Mode Control and Observer-Based Disturbance Compensation for a Permanent Magnet Linear Motor. , $2018, \ldots$		10
1908	Non-linear model predictive control with adaptive time-mesh refinement. , 2018, , .		3
1909	Nonlinear torque control with online algebraic identification for power tracking in variable-speed wind turbines. , 2018 , , .		0
1910	Effective angular constrained trajectory generation for thrust-propelled vehicles. , 2018, , .		5
1911	Covering Method for Trajectory Generation and Orbital Decomposition of Systems. Differential Equations, 2018, 54, 497-508.	0.1	11
1912	Vision-Based Reactive Planning for Aggressive Target Tracking While Avoiding Collisions and Occlusions. IEEE Robotics and Automation Letters, 2018, 3, 3725-3732.	3.3	67
1913	Adaptive dynamical tracking control under uncertainty of shunt DC motors. Electric Power Systems Research, 2018, 164, 70-78.	2.1	17
1914	Zur Erhaltung von Struktur und Flachheit bei der torbasierten Ortsdiskretisierung. Automatisierungstechnik, 2018, 66, 521-535.	0.4	O
1915	Robust-flatness Controller Design for a Differentially Driven Wheeled Mobile Robot. International Journal of Control, Automation and Systems, 2018, 16, 1895-1904.	1.6	8
1916	Flatness-based adaptive sliding mode tracking control for a quadrotor with disturbances. Journal of the Franklin Institute, 2018, 355, 6300-6322.	1.9	47
1918	Real-Time Trail-Braking Maneuver Generation for Off-Road Vehicle Racing., 2018,,.		3
1919	Feedback synthesis for underactuated systems using sequential second-order needle variations. International Journal of Robotics Research, 2018, 37, 1826-1853.	5.8	14
1920	DAE Aspects in Vehicle Dynamics and Mobile Robotics. Differential-algebraic Equations Forum, 2018, , 37-80.	0.6	1
1921	Avoiding stick slip vibrations in drilling through startup trajectory design. Journal of Process Control, 2018, 70, 24-35.	1.7	40
1922	Data-Driven Model-Free Model-Reference Nonlinear Virtual State Feedback Control from Input-Output Data., 2018,,.		4
1923	Open-Loop Control of Underactuated Mechanical Systems Using Servo-Constraints: Analysis and Some Examples. Differential-algebraic Equations Forum, 2018, , 81-122.	0.6	3

#	Article	IF	CITATIONS
1924	Agile Coordination and Assistive Collision Avoidance for Quadrotor Swarms Using Virtual Structures. IEEE Transactions on Robotics, 2018, 34, 916-923.	7.3	101
1925	Periodic Control of Unmanned Aerial Vehicles based on Differential Flatness. , 2018, , .		3
1926	Flatness-based constrained optimal control of reaction-diffusion systems. , 2018, , .		5
1927	Experimental Validation of Inversion Techniques for an LPV motion system. , 2018, , .		0
1928	On the Robust Flat-Filtering Control of MIMO nonlinear systems: The PMSM Experimental Case Study. , 2018, , .		2
1929	On trajectory generation with obstacle avoidance for a two wheeled rover based on the continuation method. , $2018, , .$		0
1930	Flatness and structural analysis as a constructive framework for private communication. Nonlinear Analysis: Hybrid Systems, 2018, 30, 92-105.	2.1	5
1931	Generalized Nonlinear Stiffness Identification on Controlled Mechanical Vibrating Systems. Asian Journal of Control, 2019, 21, 1281-1292.	1.9	18
1932	State feedback linearization of nonlinear control systems on homogeneous time scales. Nonlinear Analysis: Hybrid Systems, 2019, 31, 69-85.	2.1	2
1933	Zero-Sequence Current Based Diagnostic Method for Open-Switch Fault Detection in Parallel Inverters System. IEEE Transactions on Power Electronics, 2019, 34, 3750-3764.	5.4	20
1935	Velocity Constrained Trajectory Generation for a Collinear Mecanum Wheeled Robot., 2019,,.		2
1936	Data-Driven Model-Free Adaptive Predictive Control for a Class of MIMO Nonlinear Discrete-Time Systems With Stability Analysis. IEEE Access, 2019, 7, 102852-102866.	2.6	36
1937	Robust Flatness based Control with Disturbance Observers of Non-Ideal Boost Converter for Electric Vehicles. , 2019, , .		3
1938	An Extended Flatness-Based Controller for Permanent Magnet Synchronous Machines Incorporating an Event-Based Mechanism. , 2019, , .		2
1939	Model Predictive Control for Skydiver Fall-Rate Adjustment. , 2019, , .		0
1940	Constrained online trajectory planning for nonlinear flat SISO systems using a switched state variable filter. Automatica, 2019, 110, 108583.	3.0	5
1941	Acceleration control of a multi-rotor UAV towards achieving microgravity. Aerospace Systems, 2019, 2, 175-188.	0.7	10
1942	Output Feedback Tracking Control of Flat Systems via Exact Feedforward Linearization and LPV Techniques. International Journal of Control, Automation and Systems, 2019, 17, 606-616.	1.6	4

#	Article	IF	Citations
1943	Kinematic real-time trajectory planning with state and input constraints for the example of highly automated driving. , 2019 , , .		2
1944	A Flatness-Based Nonlinear Control Scheme for Wire Tension Control of Hoisting Systems. IEEE Access, 2019, 7, 146428-146442.	2.6	5
1945	Shortcuts to adiabaticity: Concepts, methods, and applications. Reviews of Modern Physics, 2019, 91, .	16.4	583
1946	Some comments on the constrained trajectory generation for UAV systems. , 2019, , .		0
1947	Rest-to-Rest Trajectory Planning for Underactuated Cable-Driven Parallel Robots. IEEE Transactions on Robotics, 2019, 35, 1338-1351.	7.3	49
1948	Online Optimal Perception-Aware Trajectory Generation. IEEE Transactions on Robotics, 2019, 35, 1307-1322.	7.3	27
1949	Extended State Observer Based Flatness Control for Fuel Cell Output Series Interleaved Boost Converter. IEEE Transactions on Industry Applications, 2019, 55, 6427-6437.	3.3	36
1950	Feedforward Control of a Hydraulic Clutch Actuation Path. , 2019, , .		4
1951	Visual Servoing of Nonholonomic Mobile Robots: A Review and a Novel Perspective. IEEE Access, 2019, 7, 134968-134977.	2.6	11
1952	Motion planning and tracking control for coupled flexible beam structures. Control Engineering Practice, 2019, 84, 389-398.	3.2	19
1953	Flatness-Based Control for the Maximum Power Point Tracking in a Photovoltaic System. Energies, 2019, 12, 1843.	1.6	16
1954	Cooperative path planning of multiple autonomous underwater vehicles operating in dynamic ocean environment. ISA Transactions, 2019, 94, 174-186.	3.1	42
1955	Linearised Feedforward Control of a Four-Chain Crane Manipulator. Mechanisms and Machine Science, 2019, , 233-244.	0.3	4
1956	Flatness-based finite-time leader–follower formation control of multiple quadrotors with external disturbances. Aerospace Science and Technology, 2019, 92, 20-33.	2.5	40
1957	Trajectory Tracking Control for a Boost Converter Based on the Differential Flatness Property. IEEE Access, 2019, 7, 63437-63446.	2.6	20
1958	Periodic Control of Unmanned Aerial Vehicles Based on Differential Flatness. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	6
1959	An Active Vehicle Suspension Control Approach with Electromagnetic and Hydraulic Actuators. Actuators, 2019, 8, 35.	1.2	17
1960	Extended PI Feedback Tracking Control for Synchronous Motors. International Journal of Control, Automation and Systems, 2019, 17, 1346-1358.	1.6	9

#	Article	IF	CITATIONS
1961	Concept of an automated framework for sheet metal cold forming. , 2019, , 117-127.		3
1962	Interactive Sensing and Planning for a Quadrotor Vehicle in Partially Known Environments. Journal of Guidance, Control, and Dynamics, 2019, 42, 1601-1611.	1.6	0
1963	Online Parameter Estimation for Adaptive Feedforward Control of the Strip Thickness in a Hot Strip Rolling Mill. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, 071005.	1.3	9
1964	Finite-Time Trajectory Tracking Control for Overhead Crane Systems Subject to Unknown Disturbances. IEEE Access, 2019, 7, 55974-55982.	2.6	22
1965	Mapped Chebyshev pseudospectral methods for optimal trajectory planning of differentially flat hypersonic vehicle systems. Aerospace Science and Technology, 2019, 89, 420-430.	2.5	17
1966	Normal forms for multiâ€input flat systems of minimal differential weight. International Journal of Robust and Nonlinear Control, 2019, 29, 3139-3162.	2.1	7
1967	Position Control of Pneumatic System Using High Gain and Backstepping Controllers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	5
1968	Linear active disturbance rejection control for a raceway photobioreactor. Control Engineering Practice, 2019, 85, 271-279.	3.2	26
1969	Optimal autonomous multirotor motion planning in an obstructed environment. Aerospace Science and Technology, 2019, 87, 379-388.	2.5	10
1970	An Enhanced Coupling PD with Sliding Mode Control Method for Underactuated Double-pendulum Overhead Crane Systems. International Journal of Control, Automation and Systems, 2019, 17, 1579-1588.	1.6	75
1971	Fixed-time trajectory tracking for a quadrotor with external disturbances: A flatness-based sliding mode control approach. Aerospace Science and Technology, 2019, 89, 58-76.	2.5	62
1972	Trajectory tracking control of hypersonic vehicle considering modeling uncertainty. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 4779-4787.	0.7	4
1973	Active Disturbance Rejection Based Robust Trajectory Tracking Controller Design in State Space. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	19
1974	An adaptive fuzzy sliding mode controller for uncertain underactuated mechanical systems. JVC/Journal of Vibration and Control, 2019, 25, 1521-1535.	1.5	22
1975	Asymptotic output tracking for a class of semilinear parabolic equations: A semianalytical approach. International Journal of Robust and Nonlinear Control, 2019, 29, 2471-2493.	2.1	3
1976	Time-Optimal Trajectory Generation for Landing a Quadrotor Onto a Moving Platform. IEEE/ASME Transactions on Mechatronics, 2019, 24, 585-596.	3.7	25
1977	Flatness-Based Control of DC Machine-Serial Multicellular Power Converter Association. Advances in Science, Technology and Innovation, 2019, , 21-28.	0.2	0
1978	Optimized control of engine start assisted by the disconnect clutch in a P2 hybrid automatic transmission. Mechanical Systems and Signal Processing, 2019, 124, 313-329.	4.4	51

#	Article	IF	Citations
1979	Endurance Maximizing Periodic Control of Unmanned Aerial Vehicles. , 2019, , .		1
1980	On the Control of Non-Minimum Phase Systems Using a Parallel Compensator. , 2019, , .		4
1981	Active Steering and Driving/Braking Coupled Control Based on Flatness Theory and a Novel Reference Calculation Method. IEEE Access, 2019, 7, 180661-180670.	2.6	8
1982	Vibration control of unmanned aerial vehicle with suspended load using the concept of differential flatness., 2019,,.		6
1983	A New High Performance Control Strategy of Mobile Manipulator using Fuzzy-Flatness Approach with Gains Adjustment in Real Time. , 2019, , .		1
1984	Model Based Control of Battery/Supercapacitor Hybrid Source for Modern e-Vehicle. , 2019, , .		1
1985	Differential Flatness-Based Energy/Current Cascade Control for Multiphase Interleaved Boost Fuel Cell Converter., 2019,,.		1
1986	Learning Methods for the Feedforward Control of a Hydraulic Clutch Actuation Path. , 2019, , .		2
1987	Development of a closed-loop BMI for elbow movement assistance based on kinematical decoding. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	0
1988	Mission Planning and Control of Multi-Aircraft Systems With Signal Temporal Logic Specifications. IEEE Access, 2019, 7, 155941-155950.	2.6	5
1989	Constrained real-time swivel angle control for hydraulic axial piston motors. IFAC-PapersOnLine, 2019, 52, 561-566.	0.5	1
1990	Discrete-Time Flatness-Based Feedforward Control for the 1D Shallow Water Equations. IFAC-PapersOnLine, 2019, 52, 42-47.	0.5	4
1991	Event-Based Control for Differentially Flat Systems: Application to Autonomous Underwater Vehicle. IFAC-PapersOnLine, 2019, 52, 180-185.	0.5	1
1992	Internal and External Linearization of Semi-Explicit Differential Algebraic Equations. IFAC-PapersOnLine, 2019, 52, 292-297.	0.5	3
1993	Tube-Based Internal Model Control of Differentially Flat Input-Affine SISO Systems under Input Constraints. IFAC-PapersOnLine, 2019, 52, 126-131.	0.5	2
1994	Tracking Control for Wheeled Mobile Robot Based on Delayed Sensor Measurements. Sensors, 2019, 19, 5177.	2.1	6
1995	Nonlinear Control of Non-Observable Non-Flat MIMO State Space Systems Using Flat Inputs. , 2019, , .		7
1996	Trajectory Generation for Underactuated Multirotor Vehicles with Tilted Propellers via a Flatness-based Method. , 2019 , , .		4

#	Article	IF	Citations
1997	Flatness-based control design for the Saint-Venant equations with experimental results. IFAC-PapersOnLine, 2019, 52, 60-65.	0.5	6
1998	Differential Flatness-Based Approach for Sensors and Actuators Fault Diagnosis of a Multirotor UAV. IFAC-PapersOnLine, 2019, 52, 831-836.	0.5	7
1999	Flatness-Based Control of a Two Degrees-of-Freedom Platform With Pneumatic Artificial Muscles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	7
2000	A multi-scroll chaotic system for a higher coverage path planning of a mobile robot using flatness controller. Chaos, Solitons and Fractals, 2019, 118, 366-375.	2.5	58
2001	Active Disturbance Rejection Control of the Inertia Wheel Pendulum through a Tangent Linearization Approach. International Journal of Control, Automation and Systems, 2019, 17, 18-28.	1.6	19
2002	Flatness-based adaptive nonlinear control for torque tracking of electro-hydraulic friction load simulator with uncertainties. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 1009-1016.	0.7	4
2003	Robust control of uncertain feedback linearizable systems based on adaptive disturbance estimation. ISA Transactions, 2019, 87, 1-9.	3.1	9
2004	Discrete-Time Flatness-Based Control Design for LTV MIMO Systems. Arabian Journal for Science and Engineering, 2019, 44, 2389-2398.	1.7	2
2005	Differential Flatness-based Optimal Air Combat Maneuver Strategy Generation. , 2019, , .		4
2007	Passivity-based control of a pulse-width mode operated digital hydraulic drive. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 656-665.	0.7	3
2008	Necessary and Sufficient Condition for Controlled Distinguishability of Continuous-Time Bilinear Systems. IEEE Transactions on Automatic Control, 2019, 64, 3013-3018.	3.6	4
2009	Minimum-Time Trajectory Planning Under Intermittent Measurements. IEEE Robotics and Automation Letters, 2019, 4, 153-160.	3.3	29
2010	Nonlinear Decoupling Control of Two-Terminal MMC-HVDC Based on Feedback Linearization. IEEE Transactions on Power Delivery, 2019, 34, 376-386.	2.9	30
2011	Robust Sliding Mode Control for Robots Driven by Compliant Actuators. IEEE Transactions on Control Systems Technology, 2019, 27, 1259-1266.	3.2	70
2012	Flatness-based longitudinal vehicle control with embedded torque constraint. IMA Journal of Mathematical Control and Information, 2019, 36, 729-744.	1.1	3
2013	Flatness-based control scheme for hardware-in-the-loop simulations of omnidirectional mobile robot. Simulation, 2020, 96, 169-183.	1.1	5
2014	Guaranteed trajectory tracking control based on interval observer for quadrotors. International Journal of Control, 2020, 93, 2743-2759.	1.2	6
2015	Low level formation controls for a group of quadrotors with model uncertainties. International Journal of Control, 2020, 93, 1534-1546.	1.2	2

#	Article	IF	Citations
2016	An efficient fuzzy logic control algorithm for photovoltaic maximum power point tracking under partial shading condition. Journal of the Franklin Institute, 2020, 357, 3135-3149.	1.9	30
2017	Numerical integration for the inverse dynamics of a large class of cranes. Multibody System Dynamics, 2020, 48, 1-40.	1.7	6
2018	Flatness and Submersivity of Discrete-Time Dynamical Systems. , 2020, 4, 337-342.		16
2019	A Fault-Tolerant, Passivity-Based Controller Enhanced by the Equilibrium-to-Equilibrium Maneuver Capability for the DC-Voltage Power Port VSC in Multi-Infeed AC/DC Modernized Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2484-2507.	3.7	10
2020	Output feedback dynamic control for trajectory tracking and vibration suppression. Applied Mathematical Modelling, 2020, 79, 793-808.	2.2	19
2021	Asymptotic Parking of General Two-Trailer Systems Leveraging Singularity. IEEE Transactions on Industrial Electronics, 2020, 67, 7798-7807.	5.2	8
2022	Flatness-based aircraft trajectory optimization and tracking using pseudospectral method., 2020,,.		0
2023	Improved magnetic charged system search optimization algorithm with application to satellite formation flying. Engineering Applications of Artificial Intelligence, 2020, 89, 103473.	4.3	3
2024	Meshed DC microgrid hierarchical control: A differential flatness approach. Electric Power Systems Research, 2020, 180, 106133.	2.1	16
2025	Dynamic output feedback control for desired motion tracking on synchronous motors. International Transactions on Electrical Energy Systems, 2020, 30, e12260.	1.2	2
2026	Two-degree-of-freedom MIMO control for hydraulic servo-systems with switching properties. Control Engineering Practice, 2020, 95, 104246.	3.2	5
2027	Disturbance observerâ€based nonlinear control of a quadrotor UAV. Advanced Control for Applications, 2020, 2, e24.	0.8	5
2028	Control of biomass grate boilers using internal model control. Control Engineering Practice, 2020, 96, 104274.	3.2	6
2029	A survey of underwater docking guidance systems. Robotics and Autonomous Systems, 2020, 124, 103382.	3.0	78
2030	A flatness-based predictive controller for six-degrees of freedom spacecraft rendezvous. Acta Astronautica, 2020, 167, 391-403.	1.7	18
2031	Optimal Control of a Differentially Flat Two-Dimensional Spring-Loaded Inverted Pendulum Model. IEEE Robotics and Automation Letters, 2020, 5, 307-314.	3.3	15
2032	Precise Tracking of Extended Three-Dimensional Dubins Paths for Fixed-Wing Aircraft. Journal of Guidance, Control, and Dynamics, 2020, 43, 2399-2405.	1.6	14
2033	Nonlinear Position Control Using Differential Flatness Concept with Load Torque Observer for Electro Hydraulic Actuators with Sinusoidal Load Torque. Mathematics, 2020, 8, 1484.	1.1	2

#	Article	IF	CITATIONS
2034	Perception-aware time optimal path parameterization for quadrotors., 2020,,.		17
2035	Constrained real-time control of hydromechanical powertrains – methodology and practical application. Mechatronics, 2020, 71, 102397.	2.0	3
2036	Finite-Horizon LQR Control of Quadrotors on \$SE_2(3)\$. IEEE Robotics and Automation Letters, 2020, 5, 5748-5755.	3.3	31
2037	Lumped Parameter Model for Silicon Crystal Growth from Granulate Crucible. Crystal Research and Technology, 2020, 55, 2000044.	0.6	O
2038	Flatness based trajectory planning and open-loop control of shallow-water waves in a tube. Automatica, 2020, 122, 109251.	3.0	6
2039	Flat Inputs: Theory and Applications. SIAM Journal on Control and Optimization, 2020, 58, 3293-3321.	1.1	12
2040	New applications in chemometrics. , 2020, , 187-211.		0
2041	Design of Constructive Tracking Control for Differentially Flat Systems via Minimum Projection Method., 2020,,.		4
2042	The Evolution of Research in Microgrids Control. IEEE Open Access Journal of Power and Energy, 2020, 7, 331-343.	2.5	43
2043	A new synthetic output tracking scheme for non-minimum phase affine nonlinear systems. Journal of the Franklin Institute, 2020, 357, 13326-13361.	1.9	2
2044	Number-Resolved Photocounter for Propagating Microwave Mode. Physical Review Applied, 2020, 14, .	1.5	27
2045	Model-Free Control as a Service in the Industrial Internet of Things: Packet loss and latency issues via preliminary experiments. , 2020, , .		7
2046	Backstepping Based Super-Twisting Sliding Mode MPPT Control with Differential Flatness Oriented Observer Design for Photovoltaic System. Electronics (Switzerland), 2020, 9, 1543.	1.8	21
2047	Cascade Delayed Controller Design for a Class of Underactuated Systems. Complexity, 2020, 2020, 1-18.	0.9	4
2048	A structurally flat triangular form based on the extended chained form. International Journal of Control, 2022, 95, 1144-1163.	1.2	6
2049	Autonomous Vehicle Trajectory Following: A Flatness Model Predictive Control Approach With Hardware-in-the-Loop Verification. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5613-5623.	4.7	21
2050	Intercepting a Superior Missile: Trajectory Optimization Approach to a Pursuit-Evasion Game. International Game Theory Review, 2020, 22, 2050004.	0.3	1
2051	On singularities of flat affine systems with n states and nâ^1 controls. International Journal of Robust and Nonlinear Control, 2020, 30, 3547-3565.	2.1	1

#	ARTICLE	IF	CITATIONS
2052	Differential Flatness-Based Cascade Energy/Current Control of Battery/Supercapacitor Hybrid Source for Modern e–Vehicle Applications. Mathematics, 2020, 8, 704.	1.1	20
2053	GPIO-Based Nonlinear Predictive Control for Flux-Weakening Current Control of the IPMSM Servo System. Energies, 2020, 13, 1716.	1.6	4
2054	Nested Saturation Function Control of a Magnetic Levitation System. Complexity, 2020, 2020, 1-9.	0.9	1
2055	Ein szenarienadaptiver Bewegungsalgorithmus f $\tilde{A}^{1}\!\!/\!\!4$ r die L \tilde{A} \overline{B} gsbewegung eines vollbeweglichen Fahrsimulators. Wissenschaftliche Reihe Fahrzeugtechnik Universital t Stuttgart, 2020, , .	0.0	0
2056	Robust tracking control of quadrotor based on flatness and active disturbance rejection control. IET Control Theory and Applications, 2020, 14, 1057-1068.	1,2	27
2057	Differential Flatness Based-Control Strategy of a Two-Port Bidirectional Supercapacitor Converter for Hydrogen Mobility Applications. Energies, 2020, 13, 2794.	1.6	8
2058	Robust Position and Velocity Tracking Control of a Four-wheel Drive and Four-wheel Steered Electric Vehicle. , 2020, , .		5
2059	Identification of differentially flat output of underactuated dynamic systems. International Journal of Control, 2020, , 1-12.	1.2	0
2060	Flatness of musculoskeletal systems under functional electrical stimulation. Medical and Biological Engineering and Computing, 2020, 58, 1113-1126.	1.6	1
2061	Perception-Aware Human-Assisted Navigation of Mobile Robots on Persistent Trajectories. IEEE Robotics and Automation Letters, 2020, 5, 4711-4718.	3.3	14
2062	Closed-loop tool face control with the bit off-bottom. Journal of Process Control, 2020, 90, 35-45.	1.7	7
2063	Liquid Level Tracking Control of Three-tank Systems. International Journal of Control, Automation and Systems, 2020, 18, 2630-2640.	1.6	14
2064	DCAD: Decentralized Collision Avoidance With Dynamics Constraints for Agile Quadrotor Swarms. IEEE Robotics and Automation Letters, 2020, 5, 1191-1198.	3.3	38
2065	Motion Planning and Feedback Control of Rolling Bodies. IEEE Access, 2020, 8, 31780-31791.	2.6	3
2066	Assessment of Aerial Combat Game via Optimization-Based Receding Horizon Control. IEEE Access, 2020, 8, 35853-35863.	2.6	13
2067	Use of Flatness-Based Control as Feedforward Compensator for an Aeronautical Pneumatic System. Journal of Control, Automation and Electrical Systems, 2020, 31, 548-556.	1.2	1
2068	Tracking with prescribed performance for linear non-minimum phase systems. Automatica, 2020, 115, 108909.	3.0	12
2069	Time-minimal set point transition for nonlinear SISO systems under different constraints. Automatica, 2020, 114, 108806.	3.0	4

#	Article	IF	CITATIONS
2070	On the tracking of fast trajectories of a 3DOF torsional plant: A flatness based ADRC approach. Asian Journal of Control, 2021, 23, 1367-1379.	1.9	8
2071	Neural network-based fault-tolerant control approach considering a submarine system. Evolving Systems, 2021, 12, 913-922.	2.4	1
2072	Autonomous Load Control and Transportation Using Multiple Quadrotors. Journal of Aerospace Information Systems, 2020, 17, 417-435.	1.0	21
2073	Flatness-Based Decentralized Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids Using Adaptive High-Gain PI-Observer. IEEE Systems Journal, 2021, 15, 478-486.	2.9	10
2074	High-Speed Cornering for Autonomous Off-Road Rally Racing. IEEE Transactions on Control Systems Technology, 2021, 29, 485-501.	3.2	8
2075	Theory and Applications for Control of Aerial Robots in Physical Interaction Through Tethers. Springer Tracts in Advanced Robotics, 2021, , .	0.3	8
2076	Theory of Tethered Aerial Vehicles. Springer Tracts in Advanced Robotics, 2021, , 35-76.	0.3	0
2077	Modeling and Energy Balancing Control of Modular Multilevel Converters Using Perturbation Theory for Quasi-Periodic Systems. IEEE Transactions on Power Electronics, 2021, 36, 2201-2217.	5.4	7
2078	Motion Optimization for Musculoskeletal Dynamics: A Flatness-Based Polynomial Approach. IEEE Transactions on Automatic Control, 2021, 66, 3289-3295.	3.6	3
2079	Design and control of multiphase interleaved boost converters-based on differential flatness theory for PEM fuel cell multi-stack applications. International Journal of Electrical Power and Energy Systems, 2021, 124, 106346.	3.3	26
2080	Exploiting Differential Flatness for Robust Learning-Based Tracking Control Using Gaussian Processes., 2021, 5, 1121-1126.		19
2081	Accurate Tracking of Aggressive Quadrotor Trajectories Using Incremental Nonlinear Dynamic Inversion and Differential Flatness. IEEE Transactions on Control Systems Technology, 2021, 29, 1203-1218.	3.2	84
2082	Aerial Slung-Load Position Tracking Under Unknown Wind Forces. IEEE Transactions on Automatic Control, 2021, 66, 3952-3968.	3.6	9
2083	Trajectory tracking in networks of linear systems. Automatica, 2021, 123, 109326.	3.0	4
2084	Unirational differential curves and differential rational parametrizations. Journal of Symbolic Computation, 2021, 104, 539-562.	0.5	1
2085	Active Disturbance Rejection Control for Reference Trajectory Tracking Tasks in the Pendubot System. IEEE Access, 2021, 9, 102663-102670.	2.6	11
2086	Stabilization of Crystallization Models Governed by Hyperbolic Systems. SEMA SIMAI Springer Series, 2021, , 123-135.	0.4	0
2087	Wheeled Robots., 2021,, 2455-2462.		O

#	ARTICLE	IF	CITATIONS
2088	On a Flat Triangular Form Based on the Extended Chained Form. IFAC-PapersOnLine, 2021, 54, 245-252.	0.5	4
2089	Linear Active Disturbance Rejection Control for Double-Pendulum Overhead Cranes. IEEE Access, 2021, 9, 52225-52237.	2.6	14
2090	Differential Flatness-Based, Full-Order Nonlinear Control of a Modular Multilevel Converter (MMC). IEEE Transactions on Control Systems Technology, 2022, 30, 547-557.	3.2	7
2091	Trajectory Generation for Aerial Multicopters. , 2021, , 2345-2351.		0
2092	Motion Planning for PDEs., 2021, , 1338-1346.		0
2093	Differential Flatness-Based Performance Enhancement of a Vector Controlled VSC With an LCL-Filter for Weak Grids. IEEE Access, 2021, 9, 33557-33568.	2.6	1
2094	Stability analysis of a flatness-based controller driving a battery emulator with constant power load. Automatisierungstechnik, 2021, 69, 142-154.	0.4	2
2095	A normal form for two-input forward-flat nonlinear discrete-time systems. International Journal of Systems Science, 2021, 52, 1586-1598.	3.7	1
2096	Flatness Based Control of a Novel Smart Exoskeleton Robot. IEEE/ASME Transactions on Mechatronics, 2022, 27, 974-984.	3.7	7
2097	Differential Flatness and Its Application to Snake Robots. Studies in Systems, Decision and Control, 2021, , 93-125.	0.8	0
2098	Modern Semi-Active Control Schemes for a Suspension with MR Actuator for Vibration Attenuation. Actuators, 2021, 10, 22.	1.2	13
2099	Hybrid architecture of LPV dynamical systems in the context of cybersecurity. IFAC-PapersOnLine, 2021, 54, 154-161.	0.5	0
2100	Flatness-Based Discrete-Time Control of a Battery Emulator Driving a Constant Power Load. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6864-6874.	3.7	2
2101	Validated Trajectory Tracking using Flatness. Acta Cybernetica, 2021, 25, 85-99.	0.5	0
2102	Active disturbance rejection control of nonlinear SISO Lagrangian systems via endogenous injections and exogenous feedback for trajectory tracking. Control Theory and Technology, 2021, 19, 113-126.	1.0	5
2103	Motion planning and control of nonholonomic mobile robot using flatness and fuzzy logic concepts. International Journal of Dynamics and Control, 2021, 9, 1660.	1.5	2
2104	Discrete-time data-driven control with Hölder-continuous real-time learning. International Journal of Control, 2022, 95, 2175-2187.	1.2	5
2105	A method for constructing a global motion path and planning a route for a self-driving vehicle. IOP Conference Series: Materials Science and Engineering, 2021, 1086, 012003.	0.3	2

#	Article	IF	CITATIONS
2106	Output feedback robust disturbance rejection tracking control design for a bipedal robotic system with articulation constraints. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 992-1007.	0.7	0
2107	Trajectory Tracking of a 2-DOF Helicopter System Using Canonical Normal Form., 2021,,.		1
2108	Optimal Smooth Paths Based on Clothoids for Car-like Vehicles in the Presence of Obstacles. International Journal of Control, Automation and Systems, 2021, 19, 2163-2182.	1.6	10
2109	An adaptive finiteâ€time stable control law for manipulator robots with unknown parameters. International Journal of Robust and Nonlinear Control, 2021, 31, 5218-5243.	2.1	7
2110	Algebraic necessary and sufficient condition for difference flatness. International Journal of Control, 2022, 95, 2307-2314.	1.2	3
2112	Wire Tension Coordination Control of Electro-Hydraulic Servo Driven Double-Rope Winding Hoisting Systems Using a Hybrid Controller Combining the Flatness-Based Control and a Disturbance Observer. Symmetry, 2021, 13, 716.	1.1	5
2113	Software Sensor to Enhance Online Parametric Identification for Nonlinear Closed-Loop Systems for Robotic Applications. Sensors, 2021, 21, 3653.	2.1	1
2114	Almost linearizable control systems. Mathematics of Control, Signals, and Systems, 2021, 33, 473-497.	1.4	0
2115	Prediction and Optimal Feedback Steering of Probability Density Functions for Safe Automated Driving. , 2021, , .		0
2116	Optimal Output Trajectory Shaping Using Bézier Curves. Journal of Guidance, Control, and Dynamics, 2021, 44, 1027-1035.	1.6	9
2117	Optimal Trajectory Planning and Model Predictive Control of Underactuated Marine Surface Vessels using a Flatness-Based Approach., 2021,,.		12
2118	Efficient Three Dimensional Formation Control for Unmanned Aerial Vehicles in GPS-Denied Environments., 2021,,.		0
2119	A HÃ \P lder-continuous Extended State Observer for Model-free Position Tracking Control. , 2021, , .		0
2120	Tracking control for underactuated non-minimum phase multibody systems. Nonlinear Dynamics, 2021, 104, 3671-3699.	2.7	9
2121	Time suboptimal formation flying manoeuvres through improved magnetic charged system search. Advances in Space Research, 2021, 67, 3462-3477.	1,2	0
2122	A derivative-free nonlinear Kalman filtering approach using flat inputs. International Journal of Control, 2022, 95, 2900-2910.	1.2	7
2123	Closed-loop online harmonic vibration estimation in DC electric motor systems. Applied Mathematical Modelling, 2021, 94, 460-481.	2.2	16
2124	Generalised Proportional Integral Control for Magnetic Levitation Systems Using a Tangent Linearisation Approach. Mathematics, 2021, 9, 1424.	1.1	5

#	Article	IF	Citations
2125	On the Disturbance Rejection Control of Flexible-joint Robot: A GPIO-based Approach. International Journal of Control, Automation and Systems, 2021, 19, 2910-2920.	1.6	2
2126	Grid Interactive Smart Inverter with Intrusion Detection Capability., 2021,,.		4
2127	Zur Theorie und Anwendung der Flachheit nichtlinearer zeitdiskreter Systeme in Zustandsdarstellung. Automatisierungstechnik, 2021, 69, 574-584.	0.4	0
2128	Flatness-Based Single Tank Water Level Control Under Actuator Constraint. , 2021, , .		1
2129	Control of WMRs with Dynamic Models Subject to Bounded Inputs *., 2021,,.		1
2130	Planning approach trajectories to enable late aborts for fixed-wing UAV recovery on ships. , 2021, , .		0
2131	Global Trajectory-tracking Control for a Tailsitter Flying Wing in Agile Uncoordinated Flight. , 2021, , .		8
2132	PSO-Based Soft Lunar Landing with Hazard Avoidance: Analysis and Experimentation. Aerospace, 2021, 8, 195.	1.1	9
2133	The Use of Bézier Curves for Optimal Motion Planning of Autonomous Vehicles. , 2021, , .		0
2134	Data-driven robust tracking control of underactuated mechanical systems using identified flat output and active disturbance rejection control. International Journal of Control, 0, , 1-17.	1.2	2
2135	Feedback control of water waves in a tube with moving boundary. European Journal of Control, 2021, 62, 151-157.	1.6	7
2136	Design and Optimal Control of a Multistable, Cooperative Microactuator. Actuators, 2021, 10, 183.	1.2	2
2137	Trajectory planning and tracking for fourâ€wheel steering vehicle based on differential flatness and active disturbance rejection controller. International Journal of Adaptive Control and Signal Processing, 2021, 35, 2214-2244.	2.3	13
2138	Characterization of flat outputs of switched linear discrete-time systems: Algebraic condition and algorithm. Systems and Control Letters, 2021, 154, 104970.	1.3	3
2139	Control of single input Hamiltonian systems based on the flatness of their tangent linearization. ISA Transactions, 2022, 127, 461-472.	3.1	1
2140	Flachheitsbasierte Trajektorienfolgeregelung von Flachwasserwellen in einer RĶhre mit bewegtem Kolben. Automatisierungstechnik, 2021, 69, 795-805.	0.4	0
2141	Estimation of exogenous drivers to predict COVID-19 pandemic using a method from nonlinear control theory. Nonlinear Dynamics, 2021, 106, 1111-1125.	2.7	7
2142	Flatness-Based Control of a Closed-Circuit Hydraulic Press. Advanced Structured Materials, 2022, , 111-121.	0.3	1

#	Article	IF	CITATIONS
2143	Differential–geometric decomposition of flat nonlinear discrete-time systems. Automatica, 2021, 132, 109828.	3.0	6
2144	Prediction and Optimal Feedback Steering of Probability Density Functions for Safe Automated Driving., 2021, 5, 2168-2173.		4
2145	A Trajectory-Based Approach to Discrete-Time Flatness. , 2022, 6, 289-294.		13
2146	Predictive Path Following Control Without Terminal Constraints. Lecture Notes in Control and Information Sciences, 2021, , 1-26.	0.6	1
2147	Output tracking for a non-minimum phase robotic manipulator. IFAC-PapersOnLine, 2021, 54, 178-185.	0.5	1
2148	A Quasi-Oppositional Method for Output Tracking Control by Swarm-Based MPID Controller on AC/HVDC Interconnected Systems With Virtual Inertia Emulation. IEEE Access, 2021, 9, 77572-77598.	2.6	2
2149	Underactuated Robots., 2021,, 2377-2384.		0
2150	Robust point-stabilization of nonlinear affine control systems. Lecture Notes in Control and Information Sciences, 1999, , 215-237.	0.6	6
2151	Smooth and Analytic Normal Forms: A Special Class of Strict Feedforward Forms. , 0, , 147-164.		3
2152	Closed-Loop Fault-Tolerant Control for Uncertain Nonlinear Systems. , 0, , 217-233.		17
2153	Exact feedforward linearisation based on differential flatness: The SISO case., 2003,, 161-170.		9
2154	A State Space Approach to Control of Interconnected Systems. The IMA Volumes in Mathematics and Its Applications, 2003, , 157-182.	0.5	15
2155	A DAE Formulation for the Dynamic Analysis and Control Design of Cranes Executing Prescribed Motions of Payloads., 2007,, 91-112.		3
2156	Are there New Industrial Perspectives in the Control of Mechanical Systems?. , 1999, , 197-226.		20
2159	Controlling Nonlinear Systems by Flatness. , 1997, , 137-154.		30
2160	On Drift Neutralization of Stratified Systems. , 2006, , 85-96.		2
2161	Tracking Control and π-Freeness of Infinite Dimensional Linear Systems. , 1999, , 45-68.		80
2162	Generalities and State-of-the-Art on the Control of Underactuated Mechanical Systems. , 2014, , 7-14.		2

#	Article	IF	Citations
2163	Flatness-Based Control for a Non-Linear Spatially Distributed Model of a Drilling System. Advances in Delays and Dynamics, 2014, , 205-218.	0.4	3
2164	Interval Methods for Robust Sliding Mode Control Synthesis of High-Temperature Fuel Cells with State and Input Constraints. Mathematical Engineering, 2016, , 53-85.	0.1	5
2165	Exactly Realizable Trajectories. Springer Theses, 2017, , 17-78.	0.0	1
2166	Flatness-Based Feedforward Control of a Crane Manipulator with Four Load Chains. Mechanisms and Machine Science, 2019, , 61-68.	0.3	5
2167	Trajectory Planning for Kinematically Controllable Underactuated Mechanical Systems. Springer Tracts in Advanced Robotics, 2004, , 559-575.	0.3	5
2168	Invertibility and Flatness of Switched Linear Discrete-Time Systems. , 2007, , 714-717.		4
2169	A Two-Time-Scale Control Scheme for Fast Unconstrained Systems. , 2007, , 551-563.		3
2170	Path Planning and Tracking Control for an Automatic Parking Assist System. , 2008, , 175-184.		11
2171	Automatic Flight Control Systems. , 2009, , 295-315.		1
2172	Adaptive Control Strategies in Heat Transfer Problems with Parameter Uncertainties Based on a Projective Approach., 2011,, 309-332.		9
2173	Flatness Characterization: Two Approaches. Lecture Notes in Control and Information Sciences, 2010, , 127-139.	0.6	9
2174	Controlling Underactuated Mechanical Systems: A Review and Open Problems. Lecture Notes in Control and Information Sciences, 2010, , 77-88.	0.6	20
2175	Decentralized Robust Collision Avoidance Based on Receding Horizon Planning and Potential Field for Multi-Robots Systems. Lecture Notes in Electrical Engineering, 2011, , 201-215.	0.3	5
2176	A Neural Fuzzy Inference Based Adaptive Controller Using Learning Process for Nonholonomic Robots. Lecture Notes in Computer Science, 2011, , 65-72.	1.0	2
2177	Higher Order Sliding Modes in Collaborative Robotics. Lecture Notes in Control and Information Sciences, 2011, , 409-437.	0.6	3
2179	Set Oriented Methods for the Numerical Treatment of Multiobjective Optimization Problems. Studies in Computational Intelligence, 2013, , 187-219.	0.7	21
2180	Obstacle Avoidance for Trajectory Tracking Control of Wheeled Mobile Robots. Studies in Computational Intelligence, 2013, , 279-290.	0.7	4
2181	Passivity Based Backstepping Control of an Elastic Robot. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2010, , 315-322.	0.3	4

#	Article	IF	CITATIONS
2183	Flatness-Based MPC and Global Path Planning Towards Cognition-Supported Pick-and-Place Tasks of Tower Cranes., 2012,, 63-71.		5
2184	Normal Forms for Flat Two-input Control Systems Linearizable via a Two-fold Prolongation. IFAC-PapersOnLine, 2020, 53, 5441-5446.	0.5	5
2185	Coordinated formation control of wheeled mobile robots with switching communication topologies. IET Control Theory and Applications, 2019, 13, 3164-3173.	1.2	7
2186	On the Geometry of Goursat Structures. ESAIM - Control, Optimisation and Calculus of Variations, 2001, 6, 119-181.	0.7	14
2187	A practical receding horizon control framework for path planning and control of autonomous vtol vehicles. , 2013 , , .		3
2188	Nonlinear model predictive and flatness-based two-degree-of-freedom control design: A comparative evaluation in view of industrial application. , 0, .		3
2189	Nonlinear control and reduction of underactuated systems with symmetry.III. Input coupling case. , 0,		9
2190	Position control of an inertia-spring DC-motor system without mechanical sensors: experimental results. , 0, , .		6
2191	Constrained trajectory generation for UAV systems using a B-spline parametrization., 2017,,.		17
2192	Receding Horizon Stabilization of a Rigid Spacecraft With Two Actuators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 489-491.	0.9	3
2193	Challenges and Solutions for Autonomous Robotic Mobile Manipulation for Outdoor Sample Collection. Journal Electrical and Electronic Engineering, 2015, 3, 156.	0.7	1
2194	On Motion Planning for Robotic Manipulation with Permanent Rolling Contacts. , 0, .		1
2195	Collision-free Multiple Unmanned Combat Aerial Vehicles Cooperative Trajectory Planning for Time-critical Missions using Differential Flatness Approach. Defence Science Journal, 2014, 64, 13-20.	0.5	7
2196	Applications of the Quillen-Suslin theorem to multidimensional systems theory. , 2007, , 23-106.		17
2197	Entwurf einer flachheitsbasierten Vorsteuerung fýr die induktive Erwämung beim Thixoforming (Flatness Based Control of the Inductive Heating for Thixoforming). Automatisierungstechnik, 2004, 52, 403-410.	0.4	3
2198	Dynamics, Control and Planning for Cooperative Manipulation of Payloads Suspended by Cables from Multiple Quadrotor Robots. , 0, , .		134
2199	Numerical Aspects and Performances of Trajectory Planning Methods of Flexible Axes. International Journal of Computers, Communications and Control, 2014, 1, 35.	1,2	10
2200	Nichtlineare modellprÃ d iktive Regelung auf SPS. Atp Magazin, 2014, 56, 38.	0.3	2

#	Article	IF	CITATIONS
2201	Arranque suave para un motor de CD a través de un convertidor reductor CD-CD. IngenierÃa Investigación Y TecnologÃa, 2011, 12, 137-148.	0.2	7
2202	Nonlinear Flatness-Based Controller for Permanent Magnet-Excited Synchronous Motor. , 2014, , .		2
2203	Control proporcional integral generalizado (GPI) para el lazo de corriente de un convertidor AC-DC Boost Bridgeless. Revista Ingenio, 2017, 13, 49-56.	0.1	2
2204	Vibrational control of wheeled mobile robots not satisfying ideal velocity constraints: The unicycle case., 1997,,.		14
2205	On the control of US Navy cranes. , 1997, , .		12
2206	Asymptotic tracking of a state reference for systems with a feedforward structure. , 1997, , .		7
2207	Nonlinear trajectory generation for the Caltech Multi-Vehicle Wireless Testbed., 2003,,.		3
2208	Flatness based trajectory generation for a system with heat-generation term shown for the inductive heating for thixoforming. , 2003, , .		2
2209	Flatness based asymptotic disturbance rejection for linear and nonlinear systems. , 2003, , .		2
2210	Trajectory tracking control with flat inputs and a dynamic compensator. , 2009, , .		9
2211	A polynomial solution to the model matching problem of nonlinear time-delay systems. , 2009, , .		6
2212	Robust discrete Generalized Proportional Integral Control: Application in mechanical systems. , 2009,		5
2213	An approximate abstraction approach to safety control of differentially flat systems. , 2013, , .		7
2214	Nonlinear control with approximately linear tracking error. , 2013, , .		1
2215	Nonlinear control for the longitudinal dynamics of a small scale helicopter. , 2013, , .		3
2216	Path Planning Methods in an Environment with Obstacles (A Review). Matematika I MatematiÄeskoe Modelirovanie, 2018, , 15-58.	0.2	15
2217	An Approach to the Design of Nonlinear State-Space Control Systems. Studies in Informatics and Control, 2018, 27, .	0.6	20
2218	A Torus Based Three Dimensional Motion Planning Model for Very Maneuverable Micro Air Vehicles. , 2013, , .		5

#	Article	IF	CITATIONS
2219	Co-Design and Control of a Magnetic Microactuator for Freely Moving Platforms. , 0, , .		2
2220	Control-theoretical Concepts in the Design of Symmetric Cryptosystems. Advances in Information Security, Privacy, and Ethics Book Series, 2011, , 361-385.	0.4	1
2221	Analysis of servo-constraint problems for underactuated multibody systems. Mechanical Sciences, 2013, 4, 113-129.	0.5	45
2222	B-spline parameterized optimal motion trajectories for robotic systems with guaranteed constraint satisfaction. Mechanical Sciences, 2015, 6, 163-171.	0.5	27
2223	Continuous Sliding Mode Control for Permanent Magnet Synchronous Motor Speed Regulation Systems Under Time-Varying Disturbances. Journal of Power Electronics, 2016, 16, 1324-1335.	0.9	25
2224	A Bond-Graph Method For Flatness-Based Dynamic Feedback Linearization Controller Synthesis: Application To A Current-Fed Induction Motor. , 2006, , .		1
2225	Autonomous Vehicle Motion Planning via Recurrent Spline Optimization., 2021,,.		6
2226	Tracking Control of a Wave Equation with Boundary Disturbance: Combining ADRC and Differential Flatness., 2021,,.		1
2227	Optimal flatness placement of sensors and actuators for controlling chaotic systems. Chaos, 2021, 31, 103114.	1.0	16
2228	Robust Flatness Tracking Control for the "DC/DC Buck Converter-DC Motor―System: Renewable Energy-Based Power Supply. Complexity, 2021, 2021, 1-18.	0.9	3
2229	Trajektoriengenerierung und Bahnregelung f $\tilde{A}\frac{1}{4}$ r nichtholonome, autonome Fahrzeuge. Informatik Aktuell, 2000, , 303-312.	0.4	3
2230	Dissipative Distributed Systems. Kluwer International Series in Engineering and Computer Science, 2000, , 39-53.	0.2	0
2231	Simulation of Numerically Sensitive Systems by Means of Automatic Differentiation., 2001,, 209-220.		0
2232	Stabilization of the variable-length pendulum. , 2001, , .		1
2233	Nonlinear disturbance rejection of a flexible robot., 2001,,.		1
2234	Feedback Linearization of the Lorenz System: Stabilization and Tracking Control. , 2002, , .		2
2235	Flatness Approach to LFT Modelling. Lecture Notes in Control and Information Sciences, 2002, , 221-243.	0.6	1
2236	Neighboring Optimal Feedback Law for Higher-Order Dynamic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 492-497.	0.9	3

#	ARTICLE	IF	Citations
2237	A method to determine a flat output and the parametrization of the solution of some systems described by partial differential equations. , 2003 , , .		2
2239	Flatness based open loop control for a parabolic partial differential equation with a moving boundary. , 2003, , .		1
2240	Nichtlineare Modellbildung und Regelung f \tilde{A}^{1} /4r hydraulische Schwenkfl \tilde{A}^{1} /4 gelmotoren (Nonlinear) Tj ETQq0 0 0 r 453-461.	gBT /Over 0.4	lock 10 Tf 5
2241	A partial flatness approach to nonlinear moving horizon estimation. , 2004, , .		3
2242	TRACKING OF A UNICYCLE-TYPE MOBILE ROBOT USING INTEGRAL SLIDING MODE CONTROL. , 2005, , .		0
2243	Zur Modellierung und aktiven Schwingungsunterdr $ ilde{ ilde{A}}$ $lag{4}$ ckung in Stahlwalzanlagen (On Modelling and) Tj ETQq $1\ 1$	0,784314 0.4	l rgBT /Over
2244	Improving Efficiency of Finite Plans by Optimal Choice of Input Sets. Lecture Notes in Computer Science, 2006, , 108-122.	1.0	1
2245	Vision-based Stabilization of the IDP Flat Output. , 2006, , 221-228.		0
2246	Modelling and Control of a X4 Bidirectional Rotors. , 2006, , 253-260.		0
2247	Identification en aveugle des paramÃ"tres de systÃ"mes non linéaires. Journal Europeen Des Systemes Automatises, 2006, 40, 847-866.	0.3	0
2248	Optimal path and tracking control of an autonomous VTOL aircraft. , 2006, , .		0
2249	From Time Delay to Distributed Parameter Systems in Communications. Lecture Notes in Control and Information Sciences, 2007, , 147-156.	0.6	0
2250	TRACKING CONTROL OF WHEELED MOBILE ROBOTS WITH A SINGLE STEERING INPUT - Control Using Reference Time-Scaling. , 2007, , .		0
2251	HLPR Chair: A Novel Indoor Mobility-Assist and Lift System. , 2007, , .		4
2252	Control of a Three-joint Underactuated Manipulator by IDA-PBC Method. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 788-797.	0.1	0
2253	Flatness-based control of a single qubit gate. , 2007, , .		0
2254	NEURAL GENERALIZED PREDICTIVE CONTROL WITH REFERENCE CONTROL MODEL FOR AN INDUCTION MOTOR DRIVE. Control and Intelligent Systems, 2008, 36, .	0.3	0
2255	Model Abstraction in Dynamical Systems: Application to Mobile Robot Control. Lecture Notes in Control and Information Sciences, 2008, , .	0.6	3

#	Article	IF	CITATIONS
2256	Designing a tracking controller for passenger cars with steering input. Periodica Mathematica Hungarica, 2008, 52, 137.	0.5	0
2258	Nonlinear Model-Based Control of a Parallel Robot Driven by Pneumatic Muscle Actuators., 0,,.		5
2259	Planificación de trayectorias para un robot tipo con restricciones dinámicas. Ciencia E IngenierÃa Neogranadina, 2008, 18, 75-94.	0.1	0
2260	Quantum systems and control 1. Arima, 0, Volume 9, 2007 Conference in, .	0.0	6
2261	Time-scaling in the Control of Mechatronic Systems. , 0, , .		2
2262	On-line optimization of drug delivery: An adaptive extremum seeking approach. IFMBE Proceedings, 2009, , 1410-1413.	0.2	0
2263	Mono Landmark Localization for an Autonomous Navigation of a Cooperative Mobile Robot Formation. Lecture Notes in Computer Science, 2009, , 1278-1292.	1.0	1
2264	Nonlinear Systems: A Polynomial Approach. Lecture Notes in Computer Science, 2009, , 595-602.	1.0	3
2265	Towards the Development of an Interval Arithmetic Environment for Validated Computer-Aided Design and Verification of Systems in Control Engineering. Lecture Notes in Computer Science, 2009, , 175-188.	1.0	3
2266	Finite Dimensional Controllability. , 2009, , 3524-3537.		0
2267	Infinite Dimensional Controllability. , 2009, , 4804-4820.		0
2268	Motion planning for a flexible beam structure with macro-fiber composite actuators. , 2009, , .		2
2269	Dynamics and control of 2D SpiderCrane: A Lie-BÃæklund approach. , 2009, , .		1
2270	Constructive nonlinear sliding mode surfaces for a class of underactuated systems with parametric uncertainties. , 2009, , .		0
2271	A parametric approach to the design of linear time-varying tracking controllers for nonlinear systems. , 2009, , .		0
2272	Interval Methods for Verification and Implementation of Robust Controllers. Lecture Notes in Control and Information Sciences, 2010, , 201-211.	0.6	0
2273	Predictive Planning and Systematic Action—OnÂtheÂControl of Technical Processes. , 2010, , 9-37.		2
2275	Optimierung von Batch- und Semibatchprozessen. Atp Magazin, 2010, 52, 62.	0.3	0

#	Article	IF	CITATIONS
2276	Linear Tracking Controller Design for Small-Scale Unmanned Helicopters. Intelligent Systems, Control and Automation: Science and Engineering, 2011, , 73-102.	0.3	0
2277	Robustness Comparison of Tracking Controllers Using Verified Integration., 2011,, 95-115.		1
2280	Structural Analysis for the Design of Reliable Controllers and State Estimators for Continuous-Time Dynamical Systems with Uncertainties. , 2011, , 43-68.		0
2281	Sliding Mode Controller Design: An Input-Output Approach. Lecture Notes in Control and Information Sciences, 2011, , 245-268.	0.6	0
2283	A NEURAL FUZZY INFERENCE BASED ADAPTIVE CONTROLLER FOR NONHOLONOMIC ROBOTS. International Journal of Computing, 0, , 56-65.	1.5	2
2284	Control and exploitation of nonlinearity in smart structures. , 2012, , 225-279.		1
2287	Verified Simulation for Robustness Evaluation of Tracking Controllers. Mathematics in Industry, 2012, , 255-261.	0.1	0
2288	Infinite Dimensional Controllability. , 2012, , 755-770.		0
2289	Tracking Control in an Upper Arm Exoskeleton with Differential Flatness. , 0, , .		0
2290	Temperature Control of Continuous Chemical Reactors Under Noisy Measurements and Model Uncertainties. Journal of Applied Research and Technology, 2012, 10, .	0.6	2
2291	Flatness Approach to Fault Parametric Detection of Systems. Electrical and Electronic Engineering, 2012, 2, 49-53.	1.0	0
2292	Combined Feedforward/Model Predictive Tracking Control Design for Nonlinear Diffusion-Convection-Reaction-Systems. International Federation for Information Processing, 2013, , 296-305.	0.4	0
2293	Flatness Control of A Crane. Automation Control and Intelligent Systems, 2013, 1, 1.	0.2	0
2296	New results on the problem of the stabilization of equilibria for models of electrohydraulic servoactuators. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, 1551-1567.	0.6	0
2298	A new algorithm for linearization up to multi-output and multi-input injection for a class of systems with implicitly defined outputs. , 2013 , , .		1
2300	Inertia Phase Control of the Clutch-to-Clutch Shift Process. , 2014, , 83-124.		0
2301	Adaptive Motion Planning. Advances in Industrial Control, 2014, , 177-205.	0.4	0
2303	Differential Flatness Applications to Industrial Machine Control. Automation Control and Intelligent Systems, 2014, 2, 42.	0.2	0

#	Article	IF	CITATIONS
2304	Diversities in the Inverse Dynamics Problem for Underactuated Mechanical Systems Subject to Servo-constraints. Springer Proceedings in Mathematics and Statistics, 2014, , 185-201.	0.1	0
2305	Control of Linear Delay Systems: An Approach without Explicit Predictions. Advances in Delays and Dynamics, 2014, , 17-30.	0.4	2
2306	Feedback linearization. Communications and Control Engineering, 1990, , 307-330.	1.0	1
2307	Differential flatness and defect: an overview. Banach Center Publications, 1995, 32, 209-225.	0.1	4
2308	Differential flatness of two one-forms in arbitrary number of variables. , 1997, , .		0
2310	Exterior Differential Systems in Control and Robotics. The IMA Volumes in Mathematics and Its Applications, 1998, , 271-372.	0.5	3
2311	On the regulation of a helicopter system: A trajectory planning approach for the Liouvillian model. , 1999, , .		5
2312	Nonlinear parametric identification using flat differential model: Application to an intensity/pressure converter., 1999,,.		0
2313	Time optimal steering for a mobile robot along a given path. , 1999, , .		0
2314	Commande par platitude de systÃ"mes multi-entrées multi-sorties non stationnaires. Journal Europeen Des Systemes Automatises, 2014, 48, 79-100.	0.3	0
2315	Dynamically Feasible Motion Planning through Partial Differential Flatness , 0, , .		4
2316	Satellite Flatness based Fault Tolerant Control. International Journal of Computer Applications, 2014, 99, 49-53.	0.2	0
2317	High bandwidth flatness-based control of a PM-motor with protections in case of saturations. European Journal of Electrical Engineering, 2014, 17, 115-132.	1.1	0
2319	Flatness-based fault tolerant control. DYNA (Colombia), 2014, 81, 131-138.	0.2	5
2322	Approximate Input-Output Feedback Linearization of Non-Minimum Phase System using Vanishing Perturbation Theory. Advances in Computational Intelligence and Robotics Book Series, 2015, , 173-201.	0.4	1
2323	On Geometric Properties of Triangularizations for Nonlinear Control Systems. Lecture Notes in Control and Information Sciences, 2015, , 237-255.	0.6	1
2325	Generalized Multisynchronization by Means of a Family of Dynamical Feedbacks. Understanding Complex Systems, 2015, , 187-202.	0.3	0
2327	Flachheitsbasierte Bewegungsplanung f $\tilde{A}^{1}/4$ r gekoppelte elastische Balken. Automatisierungstechnik, 2015, 63, 684-699.	0.4	3

#	Article	IF	CITATIONS
2328	Flatness-Based Vehicle Coupled Control for Steering Stability and Path Tracking. Lecture Notes in Electrical Engineering, 2016, , 49-60.	0.3	2
2329	Case Study: Control of Navigable Rivers. Progress in Nonlinear Differential Equations and Their Application, 2016, , 229-241.	0.4	0
2330	Computational Aspects of Optimization-Based Path Following of an Unmanned Helicopter. Mathematics in Industry, 2016, , 607-615.	0.1	1
2331	A Flatness Based Nonlinear Sensorless Control of Induction Motor Systems. International Journal of Power Electronics and Drive Systems, 2016, 7, 265.	0.5	2
2332	Some Recent Results on Distributed Control of Nonlinear Systems. Lecture Notes in Control and Information Sciences, 2017, , 21-50.	0.6	0
2333	HUMAN GAIT CONTROL IN SINGLE LIMB SUPPORT USING DIFFERENTIAL FLATNESS. , 2016, , 539-547.		O
2334	Experimental validation on flatness based control of flexible robot arm., 2016,,.		0
2335	Solution of Differential Flat Systems Using Variational Calculus. , 2017, , 17-29.		0
2336	Using invariance to extract signal from noise. , 2017, , .		8
2337	A homotopy-based moving horizon estimation. International Journal of Control, 2019, 92, 1672-1681.	1.2	O
2339	Path Tracking Method of ALV Model Based on ADRC Strategy and Differential Flatness Theory. Lecture Notes in Electrical Engineering, 2019, , 643-657.	0.3	0
2340	Multi-Input Nonlinear Control Systems Linearizable via One-Fold Reduction. , 2018, , .		1
2341	Robot State Estimation. Springer Tracts in Advanced Robotics, 2019, , 5-55.	0.3	0
2342	Combining Safe Interval Path Planning and Constrained Path Following Control: Preliminary Results. Lecture Notes in Computer Science, 2019, , 310-319.	1.0	9
2343	Differential Flatness based Run-to-Run Control of Blood Glucose for People with Type 1 Diabetes. , 2019, , .		1
2344	Optimal control for quadrotors during inspection of power utility assets. Renewable Energy and Power Quality Journal, 0, 17, 85-90.	0.2	0
2345	Trajectory Generation for Aerial Multicopters. , 2020, , 1-7.		0
2346	Motion Planning for PDEs. , 2020, , 1-9.		O

#	Article	IF	CITATIONS
2347	Control of interacting vehicles using model-predictive control, generalized Nash equilibrium problems, and dynamic inversion. IFAC-PapersOnLine, 2020, 53, 15146-15153.	0.5	0
2348	Trajectory Tracking for a Multicopter under a Quaternion Representation. IFAC-PapersOnLine, 2020, 53, 5731-5736.	0.5	2
2349	Decentralized Control Design for Adaptive Structures with Tension-only Elements. IFAC-PapersOnLine, 2020, 53, 8370-8376.	0.5	4
2350	Motion planning for a class of boundary controlled 1D port-Hamiltonian systems. IFAC-PapersOnLine, 2020, 53, 7710-7715.	0.5	1
2351	Flatness-Based Active Disturbance Rejection Control For a Wheeled Mobile Robot Subject To Slips and External Environmental Disturbances. IFAC-PapersOnLine, 2020, 53, 9571-9576.	0.5	2
2352	On Optimal Control of Flat Hybrid Automata. IFAC-PapersOnLine, 2020, 53, 6800-6805.	0.5	3
2353	System Co-Design (SCODE): methodology for the analysis of hybrid systems. Automatisierungstechnik, 2020, 68, 488-499.	0.4	6
2355	The Convex Geometry of Integrator Reach Sets. , 2020, , .		8
2356	Numerical Investigation of Disturbed Open-loop Control Obtained by the Covering Method., 2020,,.		0
2357	Rapid Detection of Small Faults and Oscillations in Synchronous Generator Systems Using GMDH Neural Networks and High-Gain Observers. Electronics (Switzerland), 2021, 10, 2637.	1.8	2
2358	Wheeled Robots. , 2020, , 1-8.		0
2359	Thomas Decomposition and Nonlinear Control Systems. Advances in Delays and Dynamics, 2020, , 117-146.	0.4	1
2360	Homogeneous Observers for Projected Quadratic Partial Differential Equations. , 2020, , .		0
2361	Steady-state to steady-state transfer of PDEs using semi-discretization and flatness. , 2020, , .		0
2362	Learning Feedforward Control of a Hydraulic Clutch Actuation Path Based on Policy Gradients. , 2020, , .		0
2363	Finite-time Flight Path Tracking Control Based on Differential Flatness. , 2020, , .		0
2364	Toward simple in silico experiments for drugs administration in some cancer treatments. IFAC-PapersOnLine, 2021, 54, 245-250.	0.5	6
2365	Control of a Wing Type Flat-Plate for an Ornithopter Autonomous Robot With Differential Flatness. Advances in Computational Intelligence and Robotics Book Series, 2020, , 209-245.	0.4	0

#	Article	IF	CITATIONS
2366	Trajectory Tracking Control of Quadrotor via Minimum Projection Method. IFAC-PapersOnLine, 2021, 54, 512-517.	0.5	0
2367	On a generalized flat input definition and physical realizability. IFAC-PapersOnLine, 2020, 53, 5994-5999.	0.5	5
2368	A Perception-Aware Flatness-Based Model Predictive Controller for Fast Vision-Based Multirotor Flight. IFAC-PapersOnLine, 2020, 53, 9412-9419.	0.5	3
2369	Flatness-based MPC for underactuated surface vessels in confined areas. IFAC-PapersOnLine, 2020, 53, 14686-14691.	0.5	10
2370	Multidimensional Path Tracking With Global Least Squares Solution. IFAC-PapersOnLine, 2020, 53, 6189-6194.	0.5	5
2371	On the Linearization of Flat Two-Input Systems by Prolongations and Applications to Control Design. IFAC-PapersOnLine, 2020, 53, 5479-5486.	0.5	4
2372	Effective Algebraic Analysis Approach to Linear Systems over Ore Algebras. Advances in Delays and Dynamics, 2020, , 3-52.	0.4	1
2373	Differential Flatness Based LQR Control of a Magnetorheological Damper in a Quarter Car Semi-active Suspension System., 2020,, 998-1006.		5
2374	Prescribed-time tracking for triangular systems of reaction-diffusion PDEs. IFAC-PapersOnLine, 2020, 53, 7629-7634.	0.5	5
2375	Nonlinear control for the extended model of the load-suspended UAV based on the experiments. IFAC-PapersOnLine, 2021, 54, 90-95.	0.5	2
2376	Flatness-Based Model Predictive Trajectory Planning for Cooperative Landing on Ground Vehicles. , 2021, , .		1
2377	On complexity reduction of the discrete-event subsystem of Flat Hybrid Automata for control design. Automatisierungstechnik, 2020, 68, 529-540.	0.4	2
2378	Dualitäin der regelungstechnischen Methodenentwicklung. Automatisierungstechnik, 2020, 68, 541-556.	0.4	0
2380	Parkassistent., 2006,, 307-322.		0
2381	Trajectory Parametrisation for a Positive System: The Biological Clock Example., 0,, 105-112.		0
2386	Orbital Decompositions of Control Systems and Multivector Fields. Differential Equations, 2020, 56, 1502-1512.	0.1	0
2387	Controllers for flight in a string-type geometry and string stability in a group of UAVs with kinematic and input generator dynamic models. , 2020, , .		0
2388	How many symmetries does admit a nonlinear single-input control system around an equilibrium?. , 0, , .		8

#	Article	IF	Citations
2389	Motion planning of rolling surfaces. , 0, , .		1
2390	Multirobot Navigation Functions I., 0,, 171-207.		3
2391	Discrete-time flatness-based control of a gantry crane. Control Engineering Practice, 2022, 119, 104980.	3.2	8
2392	Application of the Covering Method for Trajectories Design for Car-like Robot., 2021, , .		1
2393	Analysis of alternative flat representations of a UAV for trajectory generation and tracking., 2021,,.		2
2394	Comparison of Under-Actuated and Fully Actuated Serial Robotic Arms: A Case Study. Journal of Mechanisms and Robotics, 2022, 14, .	1.5	4
2395	Real-Time Control Systems with Applications in Mechatronics. , 2021, , 1-36.		0
2396	State Observation of Affine-in-the-States Time-Varying Systems with Unknown Parameters and Delayed Measurements. IFAC-PapersOnLine, 2021, 54, 108-113.	0.5	2
2397	Construction of flat inputs for mechanical systems. IFAC-PapersOnLine, 2021, 54, 371-376.	0.5	6
2398	Finite-Time Control using Locally Semiconcave Control Lyapunov Function for Differentially Flat Systems., 2020,,.		0
2399	Non-linear control under state constraints with validated trajectories for a mobile robot towing a trailer. , 2020, , .		0
2400	Flatness-based control of a 3-phases PWM rectifier with LCL-filter & amp; disturbance observer., 2020,,		2
2401	Comparative Study of Model-Based Control of Energy/Current Cascade Control for a Multiphase Interleaved Fuel Cell Boost Converter., 2020,,.		1
2402	The Industrial Control of Tower Cranes: An Operator-in-the-Loop Approach [Applications in Control]. IEEE Control Systems, 2020, 40, 27-39.	1.0	11
2403	Novel Control Strategy based on Differential Flatness Theory and Model Predictive Control for Dual-Active-Bridge DC-DC converter. , 2020, , .		1
2404	Sliding Mode Control of a Quadrotor with Suspended Payload: a Differential Flatness Approach. , 2020, , .		3
2405	Global Sensitivity Analysis applied to Model Inversion Problems: A Contribution to Rail Condition Monitoring. International Journal of Prognostics and Health Management, 2015, 6, .	0.6	2
2406	Dealing with constant power loads in DC-DC power electronic converters using flatness based coordinate transformations. , 2020, , .		0

#	Article	IF	CITATIONS
2407	A Finite Test for the Linearizability of Two-Input Systems by a Two-Dimensional Endogenous Dynamic Feedback. , $2021, , .$		2
2408	Load Vibration Mitigation in Unmanned Aerial Vehicles With Cable Suspended Load. ASME Journal of Autonomous Vehicles and Systems, 2021, 1 , .	0.6	1
2409	Fuzzy-Flatness Hybrid Fault-Tolerant Control. Lecture Notes in Networks and Systems, 2022, , 265-277.	0.5	0
2410	Online trajectory generation and feedforward control for manually-driven cranes with input constraints., 2021,,.		0
2411	Efficient Formulation of Collision Avoidance Constraints in optimization Based Trajectory Planning and Control. , 2021 , , .		6
2412	Sensorless Control of Induction Motor based on Differential Flatness Theory and Reduced MRAS Observer. International Journal of System Dynamics Applications, 2021, 10, 0-0.	0.3	0
2413	Excitation for Adaptive Optimal Control of Nonlinear Systems in Differential Games. IEEE Transactions on Automatic Control, 2023, 68, 596-603.	3.6	2
2414	Three-Tank Process Level Control based on a Nonlinear Observer. IETE Journal of Research, 2023, 69, 7158-7168.	1.8	0
2415	A Constructive Method for Designing Safe Multirate Controllers for Differentially-Flat Systems. , 2022, 6, 2138-2143.		5
2417	Necessary and Sufficient Conditions for Difference Flatness. IEEE Transactions on Automatic Control, 2023, 68, 1715-1721.	3.6	3
2419	Intensive care unit occupancy predictions in the COVID-19 pandemic based on age-structured modelling and differential flatness. Nonlinear Dynamics, 2022, 109, 57-75.	2.7	5
2420	Comparative Study between Flatness-Based and Field-Oriented Control Methods of a Grid-Connected Wind Energy Conversion System. Processes, 2022, 10, 378.	1.3	2
2421	Control of a Three-Phase Current Source Rectifier for H2 Storage Applications in AC Microgrids. Energies, 2022, 15, 2436.	1.6	3
2422	A simultaneous spaceâ€time discretization approach to the inverse dynamics of geometrically exact strings. International Journal for Numerical Methods in Engineering, 2022, 123, 2573-2609.	1.5	6
2423	Finite-Time Parameter Observer-Based Sliding Mode Control for a DC/DC Boost Converter with Constant Power Loads. Electronics (Switzerland), 2022, 11, 819.	1.8	7
2424	OptiTrap: Optimal Trap Trajectories for Acoustic Levitation Displays. ACM Transactions on Graphics, 2022, 41, 1-14.	4.9	7
2425	Fly Out the Window: Exploiting Discrete-Time Flatness for Fast Vision-Based Multirotor Flight. IEEE Robotics and Automation Letters, 2022, 7, 5023-5030.	3.3	3
2426	Orbital decompositions and integrable pseudosymmetries of control systems. Automatica, 2022, 139, 110189.	3.0	3

#	Article	IF	CITATIONS
2427	Mathematical Derivation and Simulational Verification for Aggressive Quadrotor Perching Control. , 2021, , .		2
2428	Control of mobile robots in the transition from state to state subject to a forward movement scheme., 2021,,.		0
2429	Active Disturbance Rejection Control of Nonlinear Systems via linear Endogenous injections and Exogenous feedback: A Classical Viewpoint., 2021,,.		1
2430	A Disturbance Observer Based Control scheme using an Active Disturbance Rejection Controller: An underactuated moving crane example. , 2021, , .		1
2431	Flatness-Based Control of an m-Branch Power Flow Controller for Meshed DC Microgrids. , 2021, , .		1
2432	Necessary and sufficient conditions for the linearisability of two-input systems by a two-dimensional endogenous dynamic feedback. International Journal of Control, 2023, 96, 800-821.	1.2	6
2433	Flatness-Based Reduced Hessian Method for Optimal Control of Aircraft. Journal of Guidance, Control, and Dynamics, 0 , 1 -14.	1.6	0
2434	Performance Evaluation of Different Control Methods for an Underactuated Quadrotor Unmanned Aerial Vehicle (QUAV) with Position Estimator and Disturbance Observer. Mathematical Problems in Engineering, 2021, 2021, 1-22.	0.6	1
2435	Dynamic feedback linearization of two-input control systems via successive one-fold prolongations. , 2021, , .		1
2436	On the computation of physically realizable generalized flat inputs for nonlinear singleâ€output systems from a geometric point of view. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	0
2437	Learning a Stability Filter for Uncertain Differentially Flat Systems using Gaussian Processes., 2021,,.		1
2438	Trajectory-tracking control of an underactuated unmanned surface vehicle based on quasi-infinite horizon model predictive control algorithm. Transactions of the Institute of Measurement and Control, 2022, 44, 2709-2718.	1.1	4
2439	Modeling, Motion Planning and Control of the Drones with Revolving Aerofoils: an Outline of the XSF Project., 2006,, 165-177.		0
2443	Path Planning and Path Tracking of Industrial Mobile Robots. Advances in Civil and Industrial Engineering Book Series, 0, , 84-124.	0.2	0
2445	Geometrically Constrained Trajectory Optimization for Multicopters. IEEE Transactions on Robotics, 2022, 38, 3259-3278.	7.3	68
2446	A Systematic Backstepping Design of Tracking Controllers for ODE-PDE-ODE Systems with Nonlinear Actuator Dynamics. Advances in Delays and Dynamics, 2022, , 171-196.	0.4	1
2447	Experimental Validation of Ellipsoidal Techniques for State Estimation in Marine Applications. Algorithms, 2022, 15, 162.	1.2	3
2448	A combined guidance and control concept for autonomous ferries. Automatisierungstechnik, 2022, 70, 444-455.	0.4	0

#	Article	IF	Citations
2449	Optimized neuro observer-based sliding mode control for a nonlinear system using fuzzy static sliding surface. Applied Soft Computing Journal, 2022, 124, 108904.	4.1	3
2450	A graph-oriented approach to address generically flat outputs in structured LTI discrete-time systems. Automatica, 2022, 142, 110344.	3.0	2
2451	Sensorless Robust Flatness-Based Control With Nonlinear Observer for Non-Ideal Parallel DC–AC Inverters. IEEE Access, 2022, 10, 53940-53953.	2.6	1
2452	Output- and state-dependent Riccati equation: An output feedback controller design. Aerospace Science and Technology, 2022, 126, 107649.	2.5	6
2454	Model-Based and Model-Free of Torque and Speed Controls for PMa-SynRM Drive System. , 2022, , .		0
2455	Modeling of Cerebral Blood Flow Autoregulation Using Mathematical Control Theory. Mathematics, 2022, 10, 2060.	1.1	3
2456	Modelling power systems as flat hybrid automata for controlled line switching. , 2022, , .		0
2457	Toward More Realistic Social Distancing Policies via Advanced Feedback Control. Automation, 2022, 3, 286-301.	1.2	2
2458	Design and Trajectory Tracking Control of a New Bi-Copter UAV. IEEE Robotics and Automation Letters, 2022, 7, 9191-9198.	3.3	4
2459	Trajectory Tracking of Autonomous Vehicle: A Differential Flatness Approach With Disturbance-Observer-Based Control. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1368-1379.	9.4	8
2460	Model-Free Control for Real-Time Dynamic Traffic Routing Problems. , 2022, , .		0
2461	Parameter Identification Concept for Process Models Combining Systems Theory and Deep Learning. , 0,		1
2462	Flat input based canonical form observers for non-integrable nonlinear systems. System Theory, Control and Computing Journal, 2022, 2, 13-21.	0.3	1
2463	Safe Interval Path Planning and Flatness-Based Control for Navigation of a Mobile Robot among Static and Dynamic Obstacles. Automation and Remote Control, 2022, 83, 903-918.	0.4	1
2464	Motion planning for a high order Dubins vehicle. Asian Journal of Control, 0, , .	1.9	0
2465	Extending Flat Motion Planning to Non-flat Systems. Experiments on Aircraft Models Using Maple. , 2022, , .		0
2466	Aggressive maneuvering of a quadcopter via differential flatness-based fuzzy controllers: From tuning to experiments. Applied Soft Computing Journal, 2022, 126, 109223.	4.1	5
2467	Fast trajectory planning and control of a lab-scale 3D gantry crane for a moving target in an environment with obstacles. Control Engineering Practice, 2022, 126, 105255.	3.2	10

#	Article	IF	Citations
2468	An approximate characterisation of the set of feasible trajectories for constrained flat systems. Automatica, 2022, 144, 110484.	3.0	1
2469	Distributed MPC for Formation Path-Following of Multi-Vehicle Systems. IFAC-PapersOnLine, 2022, 55, 85-90.	0.5	4
2470	Adaptive Algorithm for Flight Restructuring of a Group of Unmanned Aerial Vehicles. , 2022, , .		1
2471	Flatness-Based Motion Control of a UAV Slung Load System Using Quasi-Static Feedback Linearization. , 2022, , .		2
2472	Modeling and flatness based feedforward control of a hydraulic axial piston pump., 2022,,.		1
2473	Observability analysis and state reconstruction for networks of nonlinear systems. Chaos, 2022, 32, .	1.0	3
2474	Continuous output feedback sliding mode control for underactuated flexible-joint robot. Journal of the Franklin Institute, 2022, 359, 7847-7865.	1.9	13
2475	Online estimation of unknown aerodynamic forces acting on AWE systems. Intelligent Systems With Applications, 2022, 16, 200124.	1.9	O
2476	Numerical interpretation of controllability coefficients in nonlinear dynamics. Communications in Nonlinear Science and Numerical Simulation, 2023, 116, 106875.	1.7	0
2477	Feedback control of social distancing for COVID-19 via elementary formulae. IFAC-PapersOnLine, 2022, 55, 439-444.	0.5	3
2478	Neural ODEs and differential flatness for total least squares parameter estimation. IFAC-PapersOnLine, 2022, 55, 421-426.	0.5	2
2479	State Observation of Affine-in-the-States Systems with Unknown Time-Varying Parameters and Output Delay. IFAC-PapersOnLine, 2022, 55, 341-346.	0.5	1
2480	A Control Concept for Battery Emulators Using a Reference Governor With a Variable PT1-Element for Constraint Handling. IEEE Open Journal of Industry Applications, 2022, 3, 202-210.	4.8	0
2481	Real-Time Control Systems with ApplicationsÂinÂMechatronics. , 2022, , 605-640.		O
2482	Robust Flatness-Based Control With Nonlinear Observer for Boost Converters. IEEE Transactions on Transportation Electrification, 2023, 9, 142-155.	5 . 3	5
2483	Boundary and Taxonomy of Integrator Reach Sets. , 2022, , .		3
2484	Process Model Inversion in the Data-Driven Engineering Context for Improved Parameter Sensitivities. Processes, 2022, 10, 1764.	1.3	5
2485	Nonholonomic dynamics and control of road vehicles: moving toward automation. Nonlinear Dynamics, 2022, 110, 1959-2004.	2.7	4

#	Article	IF	CITATIONS
2486	Differential flatness-based pseudospectral optimal control of six-degrees-of-freedom aircraft and its issues. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 0, , 095441002211127.	0.7	0
2487	Trajectory Tracking Control for Hypersonic Vehicle Based on Differential Flatness and ADRC., 2022,,.		0
2488	Global Incremental Flight Control for Agile Maneuvering of a Tailsitter Flying Wing. Journal of Guidance, Control, and Dynamics, 2022, 45, 2332-2349.	1.6	8
2489	Active Disturbance Rejection Strategy for Distance and Formation Angle Decentralized Control in Differential-Drive Mobile Robots. Mathematics, 2022, 10, 3865.	1.1	5
2490	Flatness-based feedforward and modal model-predictive state-feedback control of a double pendulum bridge crane. IFAC-PapersOnLine, 2022, 55, 19-24.	0.5	2
2491	Flatness-based analysis and control design for 2â€Ã—â€2 hyperbolic PDEs with nonlinear boundary dynamics. IFAC-PapersOnLine, 2022, 55, 13-19.	0.5	1
2492	Modeling andÂUnder-actuated Control ofÂStabilization Before Take-off Phase forÂFlapping-wing Robots. Lecture Notes in Networks and Systems, 2023, , 376-388.	0.5	1
2493	Modelling and control of a quadrotor with flexible arms. AEJ - Alexandria Engineering Journal, 2023, 65, 209-231.	3.4	2
2494	A Flat System Possessing no (x, u)-Flat Output. , 2023, 7, 1033-1038.		0
2495	Flatness of networks of two synaptically coupled excitatory-inhibitory neural modules. IFAC-PapersOnLine, 2022, 55, 200-205.	0.5	1
2496	Normal forms for x-flat two-input control-affine systems in dimension five. IFAC-PapersOnLine, 2022, 55, 394-399.	0.5	0
2497	Sensorless flatness based control for a boost converter. Journal of Control, 2022, 16, 63-72.	0.1	0
2498	Model Inversion for Precise Path and Trajectory Tracking in an Underactuated, Non-Minimum Phase, Spatial Overhead Crane. Journal of Vibration Engineering and Technologies, 2023, 11, 3841-3857.	1.3	4
2499	Driving rapidly while remaining in control: classical shortcuts from Hamiltonian to stochastic dynamics. Reports on Progress in Physics, 2023, 86, 035902.	8.1	15
2500	Estimated Flatness-Based Active Disturbance Rejection Control for Load Frequency Control of Power Systems. Electric Power Components and Systems, 2022, 50, 1250-1262.	1.0	0
2501	Speed-Gradient Adaptive Control for Parametrically Uncertain UAVs in Formation. Electronics (Switzerland), 2022, 11, 4187.	1.8	5
2502	Stable Inverse Dynamics for Feedforward Control of Nonminimum-Phase Underactuated Systems. Journal of Mechanisms and Robotics, 2023, 15, .	1.5	4
2503	On the exact linearisation and control of flat discrete-time systems. International Journal of Control, 2024, 97, 412-426.	1.2	O

#	Article	IF	CITATIONS
2504	Practically Robust Fixed-Time Convergent Sliding Mode Control for Underactuated Aerial Flexible JointRobots Manipulators. Drones, 2022, 6, 428.	2.7	11
2505	Flatness-Based Backstepping Antisway Control of Underactuated Crane Systems under Wind Disturbance. Electronics (Switzerland), 2023, 12, 244.	1.8	4
2506	Trajectory-tracking control from a multibody system dynamics perspective. Multibody System Dynamics, 2023, 58, 341-363.	1.7	1
2507	Development and deployment of a Hybrid Controller for a Dual-Axis Solar Tracker System., 2022,,.		1
2508	Assessing the combination of differential flatness and deterministic automata for controllable hybrid systems. , 2022, , .		0
2509	Adaptive Neural Trajectory Tracking Control for Synchronous Generators in Interconnected Power Systems. Applied Sciences (Switzerland), 2023, 13, 561.	1.3	1
2510	Sampling-based trajectory (re)planning for differentially flat systems: Application to a 3D gantry crane. IFAC-PapersOnLine, 2022, 55, 33-40.	0.5	1
2511	Optimal placement of sensor and actuator for controlling low-dimensional chaotic systems based on global modeling. Chaos, 2023, 33, .	1.0	4
2512	Design and Implementation of Twisting Sliding Mode Control for DC-DC Boost Converter Using Nonlinear Disturbance Observer., 2022,,.		0
2513	Swarm Trajectories Generation for Target Capturing With Uncertain Information. IEEE Transactions on Control of Network Systems, 2023, 10, 1986-1996.	2.4	0
2514	Brunovsky Decomposition for Dynamic Interval Localization. IEEE Transactions on Automatic Control, 2023, , 1-8.	3.6	0
2515	Combining model-based and model-free approaches for the control of an electro-hydraulic system. Control Engineering Practice, 2023, 133, 105453.	3.2	4
2516	Flatness of interconnected linear systems and applications to electrical systems. IFAC-PapersOnLine, 2022, 55, 241-246.	0.5	1
2517	Differential flatness and Liouvillian character of two HPA axis models. IFAC-PapersOnLine, 2022, 55, 52-57.	0.5	2
2518	Demand response for flat nonlinear MIMO processes using dynamic ramping constraints. Computers and Chemical Engineering, 2023, 172, 108171.	2.0	0
2519	A Survey on Model-Based Control and Guidance Principles for Autonomous Marine Vehicles. Journal of Marine Science and Engineering, 2023, 11 , 430.	1.2	4
2520	A Differential Flatness-Based Model Predictive Control Strategy for a Nonlinear Quarter-Car Active Suspension System. Mathematics, 2023, 11, 1067.	1.1	1
2521	Observer-Based Robust Adaptive TS Fuzzy Control of Uncertain Systems with High-Order Input Derivatives and Nonlinear Input–Output Relationships. International Journal of Fuzzy Systems, 2023, 25, 1400-1413.	2.3	2

#	Article	IF	CITATIONS
2522	Unimodular Completions and Orthogonal Complements of Matrices over Univariate Ore Extensions. SIAM Journal on Matrix Analysis and Applications, 2023, 44, 128-155.	0.7	0
2523	Optimal placement of sensor and actuator for controlling the piecewise linear Chua circuit via a discretized controller. Journal of Difference Equations and Applications, 2023, 29, 1341-1368.	0.7	2
2524	Optimal sensor placement and estimator-based temperature control for a deep drawing process. Journal of Process Control, 2023, 124, 92-104.	1.7	1
2525	Active queue management for alleviating Internet congestion via a nonlinear differential equation with a variable delay. Annual Reviews in Control, 2023, 55, 61-69.	4.4	5
2526	Flatness-Based Quadcopter Trajectory Planning and Tracking With Continuous-Time Safety Guarantees. IEEE Transactions on Control Systems Technology, 2023, 31, 2319-2334.	3.2	7
2527	Discrete-time Flatness-based Controller Design using an Implicit Euler-discretization. IFAC-PapersOnLine, 2023, 56, 138-143.	0.5	0
2528	Flatness Analysis for the Sampled-data Model of a Single Mast Stacker Crane. IFAC-PapersOnLine, 2023, 56, 222-227.	0.5	0
2529	On Linearization of Single-Input Nonlinear Control Systems Based on Time Scaling and a One-Fold Prolongation. Differential Equations, 2023, 59, 103-118.	0.1	0
2530	Energy-Aware, Collision-Free Information Gathering for Heterogeneous Robot Teams. IEEE Transactions on Robotics, 2023, 39, 2585-2602.	7.3	1
2531	Differential Flatness of Slider–Pusher Systems for Constrained Time Optimal Collision Free Path Planning. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2023, 145, .	0.9	1
2532	Differential Flatness-Based Parameter Estimation for Suspended Load Drones. Journal of Robotics and Mechatronics, 2023, 35, 408-416.	0.5	0
2547	Dynamical Control Systems. Springer Briefs in Electrical and Computer Engineering, 2023, , 57-75.	0.3	0
2548	Control of a multi-UAV system in string-like flight in 3D space. , 2023, , .		0
2549	Adaptive Fault-Tolerant Control Design for Multi-linked Two-Wheel Drive Mobile Robots. Studies in Computational Intelligence, 2023, , 283-329.	0.7	0
2551	HALO: Hazard-Aware Landing Optimization for Autonomous Systems. , 2023, , .		1
2557	Efficient Trajectory Planning and Control for USV with Vessel Dynamics and Differential Flatness. , 2023, , .		1
2558	Synthesis and Application of Constrained Flatness-Based Real-Time Trajectory Planning for Autonomous Emergency Steering., 2023,,.		0
2559	On the application of the Schoenberg quasi-interpolant for complexity reduction in trajectory generation., 2023,,.		0

#	Article	IF	CITATIONS
2560	Flatness-based Model Predictive Payload Control for Offshore Cranes., 2023,,.		0
2561	Flatness of networks of two synaptically coupled excitatory-inhibitory neural modules with maximal symmetry < sup > * < /sup > . , 2023, , .		1
2562	Indoor experimental validation of MPC-based trajectory tracking for a quadcopter via a flat mapping approach. , 2023 , , .		1
2563	Quasi-static state feedback output tracking for a slung load system with rotor drag compensation: PX4 SITL validation. , 2023, , .		1
2566	Time-Varying Model Predictive Control Based on Dynamics Decomposition and Exponential Data Weighting Approach. , 2023, , .		0
2567	On Transforming Single Input Linear Time-Varying Systems into High-order Fully Actuated Systems. , 2023, , .		0
2568	Attitude Control of Underactuated Quadrotor UAV Based on Improved ADRC., 2023,,.		0
2569	Trajectory Generation for Autonomous Surface Vessels Based on Bézier Curves. , 2023, , .		0
2570	Output Tracking of an Anti-Stable Wave Equation Subject to Boundary Disturbance with Non-Collocated Feedback. , 2023, , .		0
2573	Vibration Mitigation in Positioning Control of a Slung Load Using Approximate Flat Output Based on Inverse Gudermannian., 2023,,.		0
2579	On Higher-Order Averaging and Flatness. , 2023, , .		0
2600	Trajectory tracking of a single-link manipulator driven from a double-bridge Buck converter: A cascade ADRC approach, 2023, , .		O
2601	Tactical Inventory Management in Production-Inventory Systems via An Adaptive Model-Free Control Scheme., 2023,,.		0
2602	A Data-Driven Approach to Synthesizing Dynamics-Aware Trajectories for Underactuated Robotic Systems. , 2023, , .		O
2604	Hamiltonian-Differential Flatness Control Laws for Battery/Ultracapacitor for Hybrid Electric Vehicle Applications. , 2023, , .		0
2605	Optimal Active Sensing Control for Two-Frame Systems. , 2023, , .		0