Andreas Kugi

List of Publications by Year
in descending order

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342	4,506	147801	168389
papers	citations	31 h-index	53 g-index

356	356	356	2888
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Passivity-Based Impedance Control of Flexible Joint Robots. IEEE Transactions on Robotics, 2008, 24, 416-429.	10.3	351
2	Unscented Kalman filter for vehicle state estimation. Vehicle System Dynamics, 2011, 49, 1497-1520.	3.7	200
3	Real-time optimal quantum control of mechanical motion at room temperature. Nature, 2021, 595, 373-377.	27.8	185
4	Tracking control for boundary controlled parabolic PDEs with varying parameters: Combining backstepping and differential flatness. Automatica, 2009, 45, 1182-1194.	5.0	152
5	Real-time Nonlinear Model Predictive Path-Following Control of a Laboratory Tower Crane. IEEE Transactions on Control Systems Technology, 2014, 22, 1461-1473.	5.2	120
6	Stability and Incremental Improvement of Suboptimal MPC Without Terminal Constraints. IEEE Transactions on Automatic Control, 2010, 55, 2576-2580.	5.7	111
7	Nonlinear H/sub âˆž/ controller design for a DC-to-DC power converter. IEEE Transactions on Control Systems Technology, 1999, 7, 230-237.	5.2	69
8	Nonlinear model predictive control of a continuous slab reheating furnace. Control Engineering Practice, 2013, 21, 495-508.	5.5	66
9	A mathematical model of a slab reheating furnace with radiative heat transfer and non-participating gaseous media. International Journal of Heat and Mass Transfer, 2010, 53, 5933-5946.	4.8	64
10	Nonlinear pressure control of self-supplied variable displacement axial piston pumps. Control Engineering Practice, 2010, 18, 84-93.	5.5	63
11	Handling constraints in optimal control with saturation functions and system extension. Systems and Control Letters, 2010, 59, 671-679.	2.3	61
12	Swing-up control of a triple pendulum on a cart with experimental validation. Automatica, 2013, 49, 801-808.	5.0	61
13	Trajectory Tracking of a 3DOF Laboratory Helicopter Under Input and State Constraints. IEEE Transactions on Control Systems Technology, 2010, 18, 944-952.	5.2	57
14	Modeling and simulation of a hydrostatic transmission with variable-displacement pump. Mathematics and Computers in Simulation, 2000, 53, 409-414.	4.4	56
15	Mathematical Modeling and Nonlinear Controller Design for a Novel Electrohydraulic Power-Steering System. IEEE/ASME Transactions on Mechatronics, 2007, 12, 85-97.	5.8	56
16	A novel robust position estimator for self-sensing magnetic levitation systems based on least squares identification. Control Engineering Practice, 2011, 19, 146-157.	5.5	53
17	Digital Slew Rate and S-Shape Control for Smart Power Switches to Reduce EMI Generation. IEEE Transactions on Power Electronics, 2015, 30, 5170-5180.	7.9	53
18	Optimisation based path planning for car parking in narrow environments. Robotics and Autonomous Systems, 2016, 79, 1-11.	5.1	53

#	Article	IF	Citations
19	Modeling and static optimization of a variable speed pumped storage power plant. Renewable Energy, 2017, 111, 38-51.	8.9	51
20	Flatness-based tracking control of a piezoactuated Eulerâ€“Bernoulli beam with non-collocated output feedback: theory and experimentsâ€. International Journal of Control, 2008, 81, 475-493.	1.9	49
21	Trajectory Planning for Boundary Controlled Parabolic PDEs With Varying Parameters on Higher-Dimensional Spatial Domains. IEEE Transactions on Automatic Control, 2009, 54, 1854-1868.	5.7	46
22	An infinite-dimensional control concept for piezoelectric structures with complex hysteresis. Structural Control and Health Monitoring, 2006, 13, 1099-1119.	4.0	38
23	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.	3.7	38
24	Accurate low-order dynamic model of a compact plate heat exchanger. International Journal of Heat and Mass Transfer, 2013, 61, 323-331.	4.8	38
25	Active compensation of roll eccentricity in rolling mills. IEEE Transactions on Industry Applications, 2000, 36, 625-632.	4.9	37
26	Compensation of parasitic effects for a silicon tuning fork gyroscope. IEEE Sensors Journal, 2006, 6, 596-604.	4.7	36
27	Impedance control for variable stiffness mechanisms with nonlinear joint coupling. , 2008, , .		35
28	Resolving the problem of non-integrability of nullspace velocities for compliance control of redundant manipulators by using semi-definite Lyapunov functions. , 2008, , .		35
29	Infinite-dimensional decentralized damping control of large-scale manipulators with hydraulic actuation. Automatica, 2016, 63, 101-115.	5.0	34
30	Digitally controlled electrorheological valves and their application in vehicle dampers. Mechatronics, 2012, 22, 629-638.	3.3	33
31	Backstepping observers for linear PDEs on higher-dimensional spatial domains. Automatica, 2015, 51, 85-97.	5.0	33
32	Modeling and optimal steady-state operating points of an ORC waste heat recovery system for diesel engines. Applied Energy, 2017, 206, 329-345.	10.1	33
33	A mathematical model of a direct-fired continuous strip annealing furnace. International Journal of Heat and Mass Transfer, 2014, 69, 375-389.	4.8	32
34	Dynamic Optimization of a Slab Reheating Furnace With Consistent Approximation of Control Variables. IEEE Transactions on Control Systems Technology, 2011, 19, 1444-1456.	5.2	31
35	Optimization-based feedforward control of the strip thickness profile in hot strip rolling. Journal of Process Control, 2018, 64, 100-111.	3.3	30
36	Nonlinear control in rolling mills: a new perspective. IEEE Transactions on Industry Applications, 2001, 37, 1394-1402.	4.9	29

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37	Backstepping-based boundary observer for a class of time-varying linear hyperbolic PIDEs. Automatica, 2016, 68, 369-377.	5.0	29
38	Control of a flexible beam actuated by macro-fiber composite patches: II. Hysteresis and creep compensation, experimental results. Smart Materials and Structures, 2011, 20, 015016.	3.5	28
39	A Magnetic Equivalent Circuit Based Modeling Framework for Electric Motors Applied to a PMSM With Winding Short Circuit. IEEE Transactions on Power Electronics, 2020, 35, 12285-12295.	7.9	27
40	Motion Planning for Piezo-Actuated Flexible Structures: Modeling, Design, and Experiment. IEEE Transactions on Control Systems Technology, 2013, 21, 807-819.	5.2	26
41	Modelling and experimental model validation for a pusher-type reheating furnace. Mathematical and Computer Modelling of Dynamical Systems, 2009, 15, 209-232.	2.2	25
42	Modeling of a Permanent Magnet Synchronous Machine With Internal Magnets Using Magnetic Equivalent Circuits. IEEE Transactions on Magnetics, 2014, 50, 1-14.	2.1	25
43	A new flatness-based control of lateral vehicle dynamics. Vehicle System Dynamics, 2008, 46, 789-801.	3.7	24
44	Model-based trajectory planning, optimization, and open-loop control of a continuous slab reheating furnace. Journal of Process Control, 2011, 21, 279-292.	3.3	24
45	A simple control-oriented model of an indirect-fired strip annealing furnace. International Journal of Heat and Mass Transfer, 2014, 78, 557-570.	4.8	24
46	High-speed nonlinear model predictive control of an interleaved switching DC/DC-converter. Control Engineering Practice, 2020, 103, 104576.	5.5	24
47	Stability of an Euler-Bernoulli Beam With a Nonlinear Dynamic Feedback System. IEEE Transactions on Automatic Control, 2016, 61, 2782-2795.	5.7	23
48	Mathematical modeling of the contour evolution of heavy plates in hot rolling. Applied Mathematical Modelling, 2015, 39, 4534-4547.	4.2	22
49	Attitude Estimation Using Redundant Inertial Measurement Units for the Control of a Camera Stabilization Platform. IEEE Transactions on Control Systems Technology, 2016, 24, 1837-1844.	5.2	22
50	New Energy-based Nonlinear Controller for Hydraulic Piston Actuators. European Journal of Control, 2004, 10, 163-173.	2.6	21
51	Automatic Gauge Control under Laterally Asymmetric Rolling Conditions Combined with Feedforward. IEEE Transactions on Industry Applications, 2017, 53, 2560-2568.	4.9	21
52	Hierarchical nonlinear optimization-based controller of a continuous strip annealing furnace. Control Engineering Practice, 2018, 73, 40-55.	5.5	21
53	Model predictive control of an automotive waste heat recovery system. Control Engineering Practice, 2018, 81, 28-42.	5.5	21
54	Nonlinear Model Predictive Control of a Variable-Speed Pumped-Storage Power Plant. IEEE Transactions on Control Systems Technology, 2021, 29, 645-660.	5.2	21

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55	Neural network for identification of roll eccentricity in rolling mills. Journal of Materials Processing Technology, 1996, 60, 387-392.	6.3	20
56	Nonlinear model predictive control of the strip temperature in an annealing furnace. Journal of Process Control, 2016, 48, 1-13.	3.3	20
57	An EKF observer to estimate semi-autogenous grinding mill hold-ups. Journal of Process Control, 2017, 51, 27-41.	3.3	20
58	An analytical approach for modelling asymmetrical hot rolling of heavy plates. Mathematical and Computer Modelling of Dynamical Systems, 2008, 14, 249-267.	2.2	19
59	Immersion and invarianceâ€based impedance control for electrohydraulic systems. International Journal of Robust and Nonlinear Control, 2010, 20, 725-744.	3.7	19
60	An Efficient Implementation of Backstepping Observers for Time-Varying Parabolic PDEs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 798-803.	0.4	19
61	Slew rate control strategies for smart power ICs based on iterative learning control. , 2014, , .		19
62	Optimization-based estimator for the contour and movement of heavy plates in hot rolling. Journal of Process Control, 2015, 29, 23-32.	3.3	18
63	Combined Path Following and Compliance Control for Fully Actuated Rigid Body Systems in 3-D Space. IEEE Transactions on Control Systems Technology, 2017, 25, 1750-1760.	5.2	18
64	Infinite-Dimensional Decoupling Control of the Tip Position and the Tip Angle of a Composite Piezoelectric Beam with Tip Mass. , 0, , 351-368.		17
65	Suboptimal model predictive control of a laboratory crane. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 397-402.	0.4	17
66	Energy-consistent shear coefficients for beams with circular cross sections and radially inhomogeneous materials. International Journal of Solids and Structures, 2013, 50, 1859-1868.	2.7	17
67	Model based control of compact heat exchangers independent of the heat transfer behavior. Journal of Process Control, 2014, 24, 286-298.	3.3	17
68	Mathematical modelling of a hydraulic accumulator for hydraulic hybrid drives. Mathematical and Computer Modelling of Dynamical Systems, 2016, 22, 397-411.	2.2	16
69	Force-based cooperative handling and lay-up of deformable materials: Mechatronic design, modeling, and control of a demonstrator. Mechatronics, 2017, 47, 246-261.	3.3	16
70	Active rejection control for unknown harmonic disturbances of the transverse deflection of steel strips with control input, system output, sensor output, and disturbance input at different positions. Mechatronics, 2018, 56, 73-86.	3.3	16
71	Nonlinear 3D path following control of a fixed-wing aircraft based on acceleration control. Control Engineering Practice, 2019, 86, 56-69.	5.5	16
72	Feedforward Control of Plate Thickness in Reversing Plate Mills. IEEE Transactions on Industry Applications, 2007, 43, 386-394.	4.9	15

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73	Magnetic Equivalent Circuit Modeling of a Saturated Surface-Mounted Permanent Magnet Synchronous Machine. IFAC-PapersOnLine, 2015, 48, 360-365.	0.9	15
74	Feedback Control of the Contour Shape in Heavy-Plate Hot Rolling. IEEE Transactions on Control Systems Technology, 2018, 26, 842-856.	5.2	15
75	Trajectory planning for quasilinear parabolic distributed parameter systems based on finite-difference semi-discretisations. International Journal of Control, 2010, 83, 1093-1106.	1.9	14
76	A fast simulation method for 1D heat conduction. Mathematics and Computers in Simulation, 2011, 82, 392-403.	4.4	14
77	Closed-loop stability analysis of a gantry crane with heavy chain and payload. International Journal of Control, 2018, 91, 1931-1943.	1.9	14
78	Efficient scheduling of a stochastic no-wait job shop with controllable processing times. Expert Systems With Applications, 2020, 162, 113879.	7.6	14
79	Modeling of a permanent magnet linear synchronous motor using magnetic equivalent circuits. Mechatronics, 2021, 76, 102558.	3.3	14
80	Title is missing!. Nonlinear Dynamics, 1999, 19, 71-91.	5.2	13
81	Infinit-dimensionale Regelung eines BrÃ¼ckenkranes mit schweren Ketten (Infinite-dimensional Control) Tj ETQq1 1 0.784314 rgBT /Ov	0.8	13
82	Ein suboptimaler Ansatz zur schnellen modellprÃdiktiven Regelung nichtlinearer Systeme. Automatisierungstechnik, 2010, 58, 447-456.	0.8	13
83	Control of a flexible beam actuated by macro-fiber composite patches: I. Modeling and feedforward trajectory control. Smart Materials and Structures, 2011, 20, 015015.	3.5	13
84	Energy-Efficient Control of Continuous Reheating Furnaces. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 359-364.	0.4	13
85	An integrated thermal model of hot rolling. Mathematical and Computer Modelling of Dynamical Systems, 2014, 20, 66-86.	2.2	13
86	Analysis and design of an Extended Kalman Filter for the plate temperature in heavy plate rolling. Journal of Process Control, 2014, 24, 1371-1381.	3.3	13
87	Optimal torque control of permanent magnet synchronous machines using magnetic equivalent circuits. Mechatronics, 2015, 32, 22-33.	3.3	13
88	Optimization-based reduction of contour errors of heavy plates in hot rolling. Journal of Process Control, 2016, 47, 150-160.	3.3	13
89	A Path/Surface Following Control Approach to Generate Virtual Fixtures. IEEE Transactions on Robotics, 2018, 34, 1577-1592.	10.3	13
90	Adaptive feedforward thickness control in hot strip rolling with oil lubrication. Control Engineering Practice, 2020, 103, 104584.	5.5	13

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91	Model-based control concepts for vibratory MEMS gyroscopes. Mechatronics, 2012, 22, 241-250.	3.3	12
92	Modeling and Force Control for the Collaborative Manipulation of Deformable Strip-Like Materials. IFAC-PapersOnLine, 2016, 49, 95-102.	0.9	12
93	Nonlinear Model Predictive Control of Axial Piston Pumps. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	12
94	Attitude control strategy for a camera stabilization platform. Mechatronics, 2017, 46, 60-69.	3.3	12
95	Convex Constrained Iterative Learning Control Using Projection: Application to a Smart Power Switch. IEEE Transactions on Control Systems Technology, 2018, 26, 1818-1825.	5.2	12
96	The spectral element method as an efficient tool for transient simulations of hydraulic systems. Applied Mathematical Modelling, 2018, 54, 627-647.	4.2	12
97	Nonlinear control of earthquake excited high raised buildings by approximate disturbance decoupling. Acta Mechanica, 1997, 125, 49-62.	2.1	11
98	Control of earthquake excited nonlinear structures using Liapunov's theory. Computers and Structures, 1998, 67, 83-90.	4.4	11
99	Electrorheological Semiactive Shock Isolation Platform for Naval Applications. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1437-1447.	5.8	11
100	A fast motion planning algorithm for car parking based on static optimization. , 2013, , .		11
101	Extended Kalman filter and adaptive backstepping for mean temperature control of a threeâ€way catalytic converter. International Journal of Robust and Nonlinear Control, 2014, 24, 3437-3453.	3.7	11
102	Modelling, simulation and identification of a mobile concrete pump. Mathematical and Computer Modelling of Dynamical Systems, 2015, 21, 180-201.	2.2	11
103	An Efficient Algorithm for Scheduling a Flexible Job Shop with Blocking and No-Wait Constraints * *Great thanks are addressed to the industrial research partner Plansee SE supporting this work. Moreover, financial support from the EU project Power Semiconductor and Electronics Manufacturing 4.0 (SemI40), under grant agreement No 692466, is gratefully acknowledged. The project is co-funded by grants from Austria, Germany, Italy, France, Portugal, and - Electronic Component Systems for European Leadership Joi. IFAC-PapersOnLine, 2017, 50, 12490-12495.	0.9	11
104	Model-Predictive Control of Servo-Pump Driven Injection Molding Machines. IEEE Transactions on Control Systems Technology, 2020, 28, 1665-1680.	5.2	11
105	Impedance Control of hydraulic piston actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 961-966.	0.4	10
106	Feedforward control design for a semilinear wave equation. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 7-10.	0.2	10
107	A dynamical envelope model for vibratory gyroscopes. Microsystem Technologies, 2010, 16, 777-786.	2.0	10
108	Model-Based Condition Monitoring of an Electro-Hydraulic Valve. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	10

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109	Control of Strip Tension in a Rolling Mill Based on Loopers and Impedance Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10646-10651.	0.4	10
110	Flatness-Based Torque Control of Saturated Surface-Mounted Permanent Magnet Synchronous Machines. IEEE Transactions on Control Systems Technology, 2016, 24, 1201-1213.	5.2	10
111	Control-oriented modeling of servo-pump driven injection molding machines in the filling and packing phase. Mathematical and Computer Modelling of Dynamical Systems, 2018, 24, 451-474.	2.2	10
112	Hamilton's Principle for Material and Nonmaterial Control Volumes Using Lagrangian and Eulerian Description of Motion. Applied Mechanics Reviews, 2019, 71, .	10.1	10
113	Fault-tolerant torque control of a three-phase permanent magnet synchronous motor with inter-turn winding short circuit. Control Engineering Practice, 2021, 113, 104846.	5.5	10
114	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.	5.5	10
115	Transformation of optimal control problems with a state constraint avoiding interior boundary conditions. , 2008, , .		9
116	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
117	Trajectory optimization for soft landing of fast-switching electromagnetic valves. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11532-11537.	0.4	9
118	Modeling and control of gas supply for burners in gas-fired industrial furnaces. , 2014, , .		9
119	Dynamical Models of Axially Moving Rods with Tensile and Bending Stiffness. IFAC-PapersOnLine, 2015, 48, 598-603.	0.9	9
120	Mathematical modelling of a diesel common-rail system. Mathematical and Computer Modelling of Dynamical Systems, 2015, 21, 311-335.	2.2	9
121	Nonlinear Observer for Temperatures and Emissivities in a Strip Annealing Furnace. IEEE Transactions on Industry Applications, 2017, 53, 2578-2586.	4.9	9
122	Mathematical Model and Stability Analysis of the Lateral Plate Motion in a Reversing Rolling Mill Stand. IFAC-PapersOnLine, 2018, 51, 73-78.	0.9	9
123	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.	2.2	9
124	Asymmetric hydrodynamic roll gap model and its experimental validation. International Journal of Advanced Manufacturing Technology, 2019, 100, 3101-3111.	3.0	9
125	Steady-state and dynamic simulation of a grinding mill using grind curves. Minerals Engineering, 2020, 152, 106208.	4.3	9
126	PassivitÃtsbasierte Regelung piezoelektrischer Strukturen (Passivity-based Control of Piezoelectric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	8

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127	Motion planning for a damped euler-bernoulli beam. , 2010, , .		8
128	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
129	Combined path following and compliance control with application to a biaxial gantry robot. , 2014, , .		8
130	Mathematical Modeling and Analysis of a Very Low Frequency HV Test System. IEEE Transactions on Power Electronics, 2014, 29, 5784-5794.	7.9	8
131	Modelling and experimental validation of the deflection of a leveller for hot heavy plates. Mathematical and Computer Modelling of Dynamical Systems, 2015, 21, 202-227.	2.2	8
132	Constrained model predictive manifold stabilization based on transverse normal forms. Automatica, 2016, 74, 315-326.	5.0	8
133	Elasto-plastic bending of steel strip in a hot-dip galvanizing line. Acta Mechanica, 2017, 228, 2455-2470.	2.1	8
134	Control and estimation strategies for pneumatic drives with partial position information. Mechatronics, 2018, 50, 259-270.	3.3	8
135	Flatness-based nonlinear control of a three-dimensional gantry crane. IFAC-PapersOnLine, 2018, 51, 331-336.	0.9	8
136	Bifurcation suppression in regenerative amplifiers by active feedback methods. Optics Express, 2020, 28, 1722.	3.4	8
137	Tensor analysis based symbolic computation for mechatronic systems. Mathematics and Computers in Simulation, 1998, 46, 517-525.	4.4	7
138	Application of a combined flatness- and passivity-based control concept to a crane with heavy chains and payload. , 2006, , .		7
139	Flatness-based feedforward control of a two-stage turbocharged diesel air system with EGR. , 2010, , .		7
140	State Estimation for Parabolic PDEs with Varying Parameters on 3-Dimensional Spatial Domains. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13338-13343.	0.4	7
141	Non-collocated feedback stabilization of a non-uniform Euler-Bernoulli beam with in-domain actuation. , 2011, , .		7
142	An optimisation-based path planner for truck-trailer systems with driving direction changes. , 2015, , .		7
143	Two-dimensional thermal modelling with specular reflections in an experimental annealing furnace. Mathematical and Computer Modelling of Dynamical Systems, 2017, 23, 23-39.	2.2	7
144	Vision-based inspection and segmentation of trimmed steel edges. IFAC-PapersOnLine, 2019, 52, 165-170.	0.9	7

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145	Frequency-adaptive cancellation of harmonic disturbances at non-measurable positions of steel strips. Mechatronics, 2020, 71, 102423.	3.3	7
146	Feedforward control of the transverse strip profile in hot-dip galvanizing lines. Journal of Process Control, 2020, 92, 35-49.	3.3	7
147	Stochastic Iterative Learning Control for Lumped- and Distributed-Parameter Systems: A Wiener-Filtering Approach. IEEE Transactions on Automatic Control, 2021, 66, 3856-3862.	5.7	7
148	Continuous-time least-squares forgetting algorithms for indirect adaptive control. European Journal of Control, 2021, 62, 105-112.	2.6	7
149	Optimal force control of a permanent magnet linear synchronous motor based on a magnetic equivalent circuit model. Control Engineering Practice, 2022, 122, 105076.	5.5	7
150	Position Control and Active Eccentricity Compensation in Rolling Mills. Automatisierungstechnik, 1999, 47, .	0.8	6
151	Analyse und Synthese nichtlinearer dissipativer Systeme: Ein Ãœberblick (Teil 2) (Analysis and Synthesis) Tj ETQq1 1 0.784314 rgBT /O	0.8	6
152	Analyse und Synthese nichtlinearer dissipativer Systeme: Ein Ãœberblick (Teil 1) (Analysis and Synthesis) Tj ETQq0 0 0 rgBT /Overlock 10	0.8	6
153	Modelling and Optimization of a Silicon Tuning Fork Gyroscope. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 59-62.	0.2	6
154	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
155	Modeling and Control of a Mobile Concrete Pump. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 91-98.	0.4	6
156	Backstepping Observers for Periodic Quasi-Linear Parabolic PDEs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7761-7766.	0.4	6
157	State of Charge Estimator Design for a Gas Charged Hydraulic Accumulator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	6
158	Mathematical Modeling and Analysis of a Hydrostatic Drive Train. IFAC-PapersOnLine, 2015, 48, 508-513.	0.9	6
159	Nonlinear observer for temperatures and emissivities in a strip annealing furnace. , 2016, , .		6
160	Real-Time Nonlinear Model Predictive Control of a Transportâ€“Reaction System. Industrial & Engineering Chemistry Research, 2016, 55, 7730-7741.	3.7	6
161	Dynamical Models of the Camber and the Lateral Position in Flat Rolling. Applied Mechanics Reviews, 2017, 69, .	10.1	6
162	Earlyâ€•and lateâ€•lumping observer designs for long hydraulic pipelines: Application to pumpedâ€•storage power plants. International Journal of Robust and Nonlinear Control, 2018, 28, 2759-2779.	3.7	6

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163	Optimal Parameter Identification for a Hydrodynamic Roll Gap Model in Hot Strip Rolling. IFAC-PapersOnLine, 2018, 51, 195-200.	0.9	6
164	Modeling and iterative pulse-shape control of optical chirped pulse amplifiers. Automatica, 2018, 98, 150-158.	5.0	6
165	A Nonlinear MPC Strategy for AC/DC-Converters tailored to the Implementation on FPGAs. IFAC-PapersOnLine, 2019, 52, 376-381.	0.9	6
166	A novel mass flow controller for tandem hot rolling mills. Journal of Process Control, 2021, 104, 168-177.	3.3	6
167	Cancellation of unknown multi-harmonic disturbances in multivariable flexible mechanical structures. Automatica, 2022, 137, 110123.	5.0	6
168	Hâˆž-control of random structural vibrations with piezoelectric actuators. Computers and Structures, 1998, 67, 137-145.	4.4	5
169	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
170	Modeling and Nonlinear Control of an Electrohydraulic Closed-Center Power-Steering System. , 0, , .		5
171	DESIGN, MATHEMATICAL MODELING AND CONTROL OF AN ASYMMETRICAL ELECTRORHEOLOGICAL DAMPER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 372-377.	0.4	5
172	Feedforward Control Design for the Inviscid Burger Equation using Formal Power Series and Summation Methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8743-8748.	0.4	5
173	Modeling and control of an off-road truck using electrorheological dampers. Journal of Physics: Conference Series, 2009, 149, 012011.	0.4	5
174	Modeling and Simulation of Large-Scale Manipulators with Hydraulic Actuation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 780-785.	0.4	5
175	Influence of Air Cooling-Jets on the Steady State Shape of Strips in Hot Dip Galvanizing Linesâ€ – â€ – The financial support by the Austrian Federal Ministry of Science, Research and Economy and the National Foundation for Research, Technology and Development is gratefully acknowledged. The second author gratefully acknowledges financial support provided by the Austrian Academy of Sciences in the form of an APART-fellowship at the Automation and Control Institute of Vienna University of Technology.. IFAC-PapersOnLine, 2015, 48, 143-148.	0.9	5
176	Soft Landing and Disturbance Rejection for Pneumatic Drives with Partial Position Information**The authors thank Festo AG & Co. KG for funding this project.. IFAC-PapersOnLine, 2016, 49, 559-566.	0.9	5
177	Estimation and control of the tool center point of a mobile concrete pump. Automation in Construction, 2016, 61, 112-123.	9.8	5
178	Energy-efficient Constrained Control of a Hydrostatic Power Split Drive. IFAC-PapersOnLine, 2017, 50, 4775-4780.	0.9	5
179	A robust real-time model for plate leveling. IFAC-PapersOnLine, 2018, 51, 61-66.	0.9	5
180	State estimation and advanced control of the 2D temperature field in an experimental oscillating annealing device. Control Engineering Practice, 2018, 78, 116-128.	5.5	5

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181	Slip Model Adaptation Based on Measurements of the Strip Velocity. IFAC-PapersOnLine, 2019, 52, 42-47.	0.9	5
182	Improved EMD-based Oscillation Detection for Mechatronic Closed-Loop Systems. IFAC-PapersOnLine, 2019, 52, 370-375.	0.9	5
183	A design technique for fast sampled-data nonlinear model predictive control with convergence and stability results. International Journal of Control, 2020, 93, 81-97.	1.9	5
184	Magnetic Actuator Design for Strip Stabilizers in Hot-Dip Galvanizing Lines: Examining Rules and Basic Tradeoffs. IEEE Industry Applications Magazine, 2020, 26, 54-63.	0.4	5
185	Surface-Based Path Following Control: ApplicationÂofÂCurved Tapes on 3-D Objects. IEEE Transactions on Robotics, 2021, 37, 615-626.	10.3	5
186	Control of mechanical structures by piezoelectric actuators and sensors. Lecture Notes in Control and Information Sciences, 1999, , 275-292.	1.0	5
187	Flatness-Based MPC and Global Path Planning Towards Cognition-Supported Pick-and-Place Tasks of Tower Cranes. , 2012, , 63-71.		5
188	Application of a Combined Flatness- and Passivity-Based Control Concept to a Crane With Heavy Chains and Payload. , 2006, , .		5
189	Cooperative Model Predictive Control Concepts for Coupled AC/DC- and DC/DC-Power Converters. IEEE Transactions on Control Systems Technology, 2023, 31, 359-369.	5.2	5
190	Control of nonlinear descriptor systems, a computer algebra based approach. , 2001, , 379-395.		4
191	Modeling and Control of an Electrorheological Actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 265-270.	0.4	4
192	INVERSIONâ€“BASED TRANSIENT SHAPING OF A PIEZOâ€“ACTUATED PLATE: MOTION PLANNING AND FEEDFORWARD CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 169-174.	0.4	4
193	Nichtlineare Regelung von verstellbaren eigenversorgten Axialkolbenpumpen (Nonlinear Control of) Tj ETQq1 1 0.784314 rgBT /Overl	0.8	4
194	MODELING AND CONTROL OF FRONT END BENDING IN HEAVY PLATE MILLS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 231-236.	0.4	4
195	Real-time trajectory optimization under input constraints for a flatness-controlled laboratory helicopter. , 2009, , .		4
196	Motion planning for an adaptive wing structure with macro-fiber composite actuators. Proceedings of SPIE, 2009, , .	0.8	4
197	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
198	Estimation of plate temperatures in hot rolling based on an extended Kalman filter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 409-414.	0.4	4

#	Article	IF	Citations
199	Control of radiant tubes in an indirect-fired strip annealing furnace for improved efficiency. , 2013, , .		4
200	Manifold stabilization and path-following control for flat systems with application to a laboratory tower crane. , 2014, , .		4
201	Vision-Based Material Tracking in Heavy-Plate Rolling. IFAC-PapersOnLine, 2016, 49, 108-113.	0.9	4
202	Dynamical Model of Axially Moving Steel Strips**Financial support by the Austrian Federal Ministry of Science, Research and Economy and the National Foundation for Research, Technology and Development, and voestalpine Stahl GmbH is gratefully acknowledged.. IFAC-PapersOnLine, 2016, 49, 190-195.	0.9	4
203	Combustion processes inside a direct-fired continuous strip annealing furnace. IFAC-PapersOnLine, 2016, 49, 208-213.	0.9	4
204	Simulation von Welleneffekten in Pumpspeicherkraftwerken mit Hilfe der Spektral-Element-Methode. Automatisierungstechnik, 2016, 64, 681-695.	0.8	4
205	Modeling of the Media Supply of Gas Burners of an Industrial Furnace. IEEE Transactions on Industry Applications, 2016, 52, 2664-2672.	4.9	4
206	Efficient Generation of Fast Trajectories for Gantry Cranes with Constraints. IFAC-PapersOnLine, 2017, 50, 1937-1943.	0.9	4
207	Deflection Model of A Multi-Actuator Gap Leveler. IFAC-PapersOnLine, 2017, 50, 11295-11300.	0.9	4
208	Feedforward control of lateral asymmetries in heavy-plate hot rolling using vision-based position estimation. IFAC-PapersOnLine, 2017, 50, 11307-11312.	0.9	4
209	Control of Curvature and Contact Force of a Metal Strip at the Strip-Roll Contact Point. IFAC-PapersOnLine, 2017, 50, 11325-11330.	0.9	4
210	Path Following Control for Elastic Joint Robots * *This research was partially supported by the Austrian Research Promotion Agency (FFG), grant number: 850952. IFAC-PapersOnLine, 2017, 50, 4806-4811.	0.9	4
211	Scheduling of a Flexible Job Shop with Multiple Constraints. IFAC-PapersOnLine, 2018, 51, 1293-1298.	0.9	4
212	Torque Control of a Hydrostatic Transmission Applied to a Wheel Loader. , 2019, , .		4
213	High-Speed Nonlinear MPC with Long Prediction Horizon for Interleaved Switching AC/DC-Converters. , 2020, , .		4
214	A two-stage observer for the compensation of actuator-induced disturbances in tool-force sensors. Mechanical Systems and Signal Processing, 2021, 146, 106989.	8.0	4
215	Control of Vibratory MEMS Gyroscopes based on Envelope Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 441-446.	0.4	3
216	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

#	Article	IF	Citations
217	Infinit-dimensionaler Reglerentwurf fÃ¼r Euler-Bernoulli Balken mit Macro-Fibre Composite Aktoren. Automatisierungstechnik, 2012, 60, 10-19.	0.8	3
218	Analysis of Radiative Heat Transfer in an Indirect-Fired Strip Annealing Furnace based on Integral Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 403-408.	0.4	3
219	State estimation for parabolic PDEs with reactive-convective non-linearities. , 2013, , .		3
220	Quasi optimal feedforward control of a very low frequency high-voltage test system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11623-11628.	0.4	3
221	Field weakening in flatness-based torque control of saturated surface-mounted permanent magnet synchronous machines. , 2015, , .		3
222	Optimal Steady-State Temperature Field in an Experimental Annealing Furnace. IFAC-PapersOnLine, 2016, 49, 214-219.	0.9	3
223	Model Predictive Speed Control of Axial Piston Motors**The authors from Vienna University of Technology highly appreciate the technical and financial support provided by Robert Bosch GmbH.. IFAC-PapersOnLine, 2016, 49, 772-777.	0.9	3
224	Automatic gauge control under laterally asymmetric rolling conditions combined with feedforward. , 2016, , .		3
225	Magnetic actuator design for strip stabilizers in hot dip galvanizing lines. , 2018, , .		3
226	Model Averaging and Feedforward Temperature Control in an Oscillating Annealing Furnace. IFAC-PapersOnLine, 2018, 51, 163-168.	0.9	3
227	Lateral Forces in Rolling-Cut Shearing and Their Consequences on Common Edge Defects. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	3
228	Magnetic Equivalent Circuit Model of a Dual Three-Phase PMSM with Winding Short Circuit. , 2019, , .		3
229	Dynamic Virtual Fixtures Based on Path Following Control. IFAC-PapersOnLine, 2019, 52, 424-429.	0.9	3
230	Efficient oscillation detection for verification of mechatronic closed-loop systems using search-based testing. Mechanical Systems and Signal Processing, 2022, 163, 108112.	8.0	3
231	Active and Semi-Active Control of Electrorheological Fluid Devices. , 2005, , 203-212.		3
232	On the global feedback stabilization of regenerative optical amplifiers. IFAC-PapersOnLine, 2020, 53, 5447-5452.	0.9	3
233	Fast motion planning for a laboratory 3D gantry crane in the presence of obstacles. IFAC-PapersOnLine, 2020, 53, 9508-9514.	0.9	3
234	Temperature Control for Induction Heating of Thin Strips. IFAC-PapersOnLine, 2020, 53, 11968-11973.	0.9	3

#	Article	IF	Citations
235	Kartesische Impedanzregelung von Robotern mit elastischen Gelenken: Ein passivitÃtsbasierter Ansatz (Cartesian Impedance Control of Flexible Joint Robots: A Passivity Based Approach). Automatisierungstechnik, 2005, 53, 378-388.	0.8	2
236	Regelung adaptronischer Systeme, Teil I: Piezoelektrische Strukturen (Control of Adaptronic Systems,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	2
237	Ein neuartiger Ansatz zur Querdynamikregelung von Personenkraftwagen (A New Approach to Lateral) Tj ETQq1 1 0.784314 rgBT /Over	0.8	2
238	Stress measurement in a cantilevered silicon beam undergoing coupled motion of torsion and bending. Smart Materials and Structures, 2007, 16, 296-304.	3.5	2
239	Resistance estimation algorithm for self-sensing magnetic levitation systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 32-37.	0.4	2
240	Idle Stroke Detection for a Fuel Injection Control Valve. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 499-504.	0.4	2
241	Trajektorienfolgeregelung fÃ¼r parabolische partielle Differenzialgleichungen mit variablen ParameternTracking Control for Parabolic PDEs with Varying Parameters. Automatisierungstechnik, 2010, 58, 128-138.	0.8	2
242	Modelling and identification of a piezoelectrically driven fuel injection control valve. Mathematical and Computer Modelling of Dynamical Systems, 2010, 16, 285-305.	2.2	2
243	Feedback Tracking Control of Continuous Reheating Furnaces. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11744-11749.	0.4	2
244	Decoupled Quadrature and Force Feedback Control of Capacitive MEMS Gyroscopes*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13534-13539.	0.4	2
245	Optimal Active Deflection Compensation of a Hot Leveler. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 30-35.	0.4	2
246	Dreistufiger Kolbenkompressor mit vorgeschaltetem Drehkolbenkompressor: Teil 1, Modellierung. Automatisierungstechnik, 2012, 60, 766-776.	0.8	2
247	Two Illustrative Examples to Show the Potential of Thermography for Process Monitoring and Control in Hot Rolling. IFAC-PapersOnLine, 2015, 48, 48-53.	0.9	2
248	Modellierung des Umschlingungswinkels eines auf Rollen gefÃ¼hrten Metallbandes. Automatisierungstechnik, 2015, 63, 646-655.	0.8	2
249	Controller design and experimental validation of a very low frequency high-voltage test system. Control Engineering Practice, 2015, 37, 32-42.	5.5	2
250	Experimental Parameterization of a Design Model for Flatness-based Torque Control of a Saturated Surface-Mounted PMSM**This work was supported by Bernecker and Rainer Industrie Elektronik GmbH.. IFAC-PapersOnLine, 2016, 49, 575-582.	0.9	2
251	Patching process optimization in an agent-controlled timber mill. Journal of Intelligent Manufacturing, 2017, 28, 69-84.	7.3	2
252	Nichtlineares Bewegungsmodell fÃ¼r ein Stahlband in einer OberflÃchenbeschichtungsanlage. Automatisierungstechnik, 2017, 65, 546-560.	0.8	2

#	Article	IF	Citations
253	Feedforward Control of the Temperature Field in an Experimental Annealing Furnace 1 1The financial support by the Austrian Federal Ministry of Science, Research and Economy, the National Foundation for Research, Technology and Development, and voestalpine Stahl GmbH is gratefully acknowledged.. IFAC-PapersOnLine, 2017, 50, 13790-13795.	0.9	2
254	Model-Based Signal Processing for the Force Control of Biaxial Gantry Robots * *This work was supported by Festo AG & Co. KG. IFAC-PapersOnLine, 2017, 50, 3208-3214.	0.9	2
255	A Computationally Efficient 3D Mathematical Model of a Molybdenum Batch-Reheating Furnace â€ â€This research work has been performed in the EU project Power Semiconductor and Electronics Manufacturing 4.0 (SemI40), which is funded by the programme Electronic Component Systems for European Leadership (ECSEL) Joint Undertaking (grant agreement no. 692466) and the programme â€œIKT der Zukunftâ€• (project no. 853343) of the Austrian Ministry for Transport, Innovation and Technology (bmvit) between May 2016 and April. IFAC-PapersOnLine, 2018, 51, 819-824.	0.9	2
256	Model-based estimation of the stress-strain curve of metal strips. Mathematical and Computer Modelling of Dynamical Systems, 2019, 25, 224-241.	2.2	2
257	A dynamic model of power metal-oxide-semiconductor field-effect transistor half-bridges for the fast simulation of switching induced electromagnetic emissions. Mathematical and Computer Modelling of Dynamical Systems, 2019, 25, 242-260.	2.2	2
258	Non-Collocated Position Control of Steel Strip With Electromagnetic Rejection of Unknown Multi-Harmonic Disturbances. IFAC-PapersOnLine, 2019, 52, 430-435.	0.9	2
259	Collaborative Synchronization of a 7-Axis Robot. IFAC-PapersOnLine, 2019, 52, 507-512.	0.9	2
260	Time-optimal fold out of large-scale manipulators with obstacle avoidance. IFAC-PapersOnLine, 2019, 52, 114-119.	0.9	2
261	Reduced-Order Modeling of a Radiative Heating Process with Movable Radiators. IFAC-PapersOnLine, 2019, 52, 346-351.	0.9	2
262	Model-based optimization of blade geometry in rolling-cut shearing to minimize common defects of the sheared edge. Journal of Manufacturing Processes, 2020, 52, 213-219.	5.9	2
263	Optimale AbstÃ¼tzung eines mobilen GroÃŸraummanipulators. Automatisierungstechnik, 2021, 69, 782-794.	0.8	2
264	Model-Based Fault Identification of Inter-Turn Winding Short Circuits in PMSM. , 2020, , .		2
265	Model-Based Dynamic Calibration of a Multi-Actuator Gap Leveler for Heavy Plates. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	2
266	Optimal Thread-In and Thread-Out Strategies for Heavy Plate Levelers. IFAC-PapersOnLine, 2021, 54, 1-6.	0.9	2
267	Discrete-Time Repetitive Control for Multi-Harmonic Reference Trajectories with Arbitrary Frequency. IFAC-PapersOnLine, 2020, 53, 1646-1651.	0.9	2
268	Optimal control of plate motion and camber in a reversing rolling mill. IFAC-PapersOnLine, 2020, 53, 11962-11967.	0.9	2
269	In-Line Estimation of the Magnetization Curve of Steel Strips in a Continuous Induction Furnace. IFAC-PapersOnLine, 2020, 53, 12062-12067.	0.9	2
270	Are edger rolls useful to control the plate motion and camber in a reversing rolling mill?. Journal of Process Control, 2022, 114, 71-81.	3.3	2

#	Article	IF	Citations
271	Regelung eines Cuk-Konverters (Control of a Cuk-Converter). Automatisierungstechnik, 2000, 48, 116.	0.8	1
272	CONTROL OF PLATE THICKNESS IN HEAVY PLATE MILLS: A NEW PERSPECTIVE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 107-112.	0.4	1
273	Modelling of distributed-parameter systems for control purposes. Mathematical and Computer Modelling of Dynamical Systems, 2008, 14, 177-178.	2.2	1
274	Feedforward control design for the wave equation with nonlinear boundary conditions modelling a torsional rod. , 2008, , .		1
275	Modelâ€“based control of frontâ€“end bending in hot rolling processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1645-1650.	0.4	1
276	An envelope model to describe the sensor dynamics of vibratory gyroscopes. , 2009, , .		1
277	Digital Control of Electrorheological Valves. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 640-645.	0.4	1
278	Trajectory planning for semilinear PDEs modeling a countercurrent heat exchanger. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 593-598.	0.4	1
279	Extension and optimization of the load range of DRT test systems for testing extra-long HV and UHV cables. Elektrotechnik Und Informationstechnik, 2013, , 1.	1.1	1
280	Modellierung eines Smart High-Side Power ICs. Automatisierungstechnik, 2013, 61, 849-858.	0.8	1
281	Heat Transfer with Specular Reflections in an Experimental Annealing Device. IFAC-PapersOnLine, 2015, 48, 494-499.	0.9	1
282	Modeling of the media-supply of gas burners of an industrial furnace. , 2015, , .		1
283	Surface Following Control for Fully Actuated Rigid Body Systems in Three-Dimensional Euclidean Space. IFAC-PapersOnLine, 2016, 49, 594-599.	0.9	1
284	Modellordnungsreduktion, Beobachterentwurf und Sensorplatzierung fÃ¼r einen Infrarot-GlÃ¼hofen. Automatisierungstechnik, 2017, 65, 337-349.	0.8	1
285	Swing-Up of a Spherical Pendulum on a 7-Axis Industrial Robot. IFAC-PapersOnLine, 2019, 52, 346-351.	0.9	1
286	Cycleâ€based Adaption of a Modelâ€Predictive Control Strategy for Injection Molding Machines. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900317.	0.2	1
287	Modeling and control of a novel pneumatic two-stage piezoelectric-actuated valve. Mechatronics, 2021, 75, 102529.	3.3	1
288	A software package for the analysis of DAE control systems. , 1999, , .		1

#	Article	IF	Citations
289	Part Mass Estimation Strategy for Injection Molding Machines. IFAC-PapersOnLine, 2020, 53, 10366-10371.	0.9	1
290	Optimization-based estimator for the lateral strip position in tandem hot rolling. IFAC-PapersOnLine, 2021, 54, 7-12.	0.9	1
291	Optimal Start Times for a Flow Shop with Blocking Constraints, No-Wait Constraints, and Stochastic Processing Times. IFAC-PapersOnLine, 2021, 54, 659-664.	0.9	1
292	Increasing the Capacity for Automated Valet Parking Using Variable Spot Width. , 2020, , .		1
293	Robust Mass Flow Control in Hot Rolling Mills. , 2021, , .		1
294	Iterative learning and feedback control for the curvature and contact force of a metal strip on a roll. Control Engineering Practice, 2022, 121, 105071.	5.5	1
295	Mathematical modeling and computational principles for the analysis and simulation of long-distance energy systems. Mathematics and Computers in Simulation, 1995, 39, 565-572.	4.4	0
296	Rotational Hydraulic Piston Actuators and DC-DC-Power Converters: A Unifying Modeling and Control Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 359-364.	0.4	0
297	Descriptor-Systems and Optimal Control. Mathematical and Computer Modelling of Dynamical Systems, 2001, 7, 159-172.	2.2	0
298	SYMBOLIC METHODS FOR SYSTEMS OF IMPLICIT ORDINARY DIFFERENTIAL EQUATIONS*. Mechanics Based Design of Structures and Machines, 2002, 30, 103-121.	0.6	0
299	PassivitÃts- und Lyapunovbasierte Reglerentwurfsmethoden (Passivity- and Lyapunov-based Control) Tj ETQq1 1 0.784314 rgBT /Over	0.8	0
300	Feedforward control of plate thickness in reversing plate mills. , 0, , .		0
301	Regelung adaptronischer Systeme, Teil II: Elektrorheologische Aktoren (Control of Adaptronic) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.8	0
302	Erratum to "Feedforward control of plate thickness in reversing plate mills". IEEE Transactions on Industry Applications, 2007, 43, 1652-1652.	4.9	0
303	Experimental results on motion planning and tracking control for a piezoactuated flexible trimorph bender. , 2007, , .		0
304	Inversion-Based Feedforward Control for the Transient Shaping of a Piezo-Actuated Cantilevered Kirchhoff Plate. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10913-10914.	0.2	0
305	Modellbasierte Dicken- und Ebenheitsregelung in Grobblechwalzwerken (Model-based Control of) Tj ETQq1 1 0.784314 rgBT /Overlock	0.8	0
306	Tracking control of a distributed-parameter piezoelectric stack actuator. , 2009, , .		0

#	Article	IF	Citations
307	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
308	Ein Programmpaket zur Modellierung kapazitiver MEMS-Drehratensensoren. Automatisierungstechnik, 2010, 58, 307-315.	0.8	0
309	AusgewÃhlte BeitrÃge der GMA-FachausschÃ¼sse 1.30 und 1.40. Automatisierungstechnik, 2010, 58, 423-424.	0.8	0
310	Steuerungs- und RegelungsansÃtze fÃ¼r Systeme mit verteilten Parametern. Automatisierungstechnik, 2010, 58, 115-116.	0.8	0
311	State Reconstruction in Higher Dimensional PDEs with Spatially Varying Parameters. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 813-814.	0.2	0
312	Feedforward Control for a Non-Uniform Euler-Bernoulli Beam. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 829-830.	0.2	0
313	Motion planning for an elastic Kirchhoff plate. , 2012, , .		0
314	Modellierung und Regelung eines aktiven Wellenkompensationssystems fÃ¼r TiefseekrÃne. Automatisierungstechnik, 2012, 60, 39-52.	0.8	0
315	Hardware implementation of an electrostatic MEMS-actuator linearization. Microsystem Technologies, 2012, 18, 955-963.	2.0	0
316	Dreistufiger Kolbenkompressor mit vorgeschaltetem Drehkolbenkompressor: Teil 2, Regelung. Automatisierungstechnik, 2013, 61, 48-59.	0.8	0
317	A queue-based dynamic power control approach for wireless communication networks. , 2014, , .		0
318	Power optimal gate current profiles for the slew rate control of Smart Power ICs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7190-7195.	0.4	0
319	Steering Control of Metal Strips Using a Pivoted Guide Roller. IFAC-PapersOnLine, 2015, 48, 137-142.	0.9	0
320	Time-optimal trajectory generation, path planning and control for a wood patching robot. , 2015, , .		0
321	Optimale nichtlineare Regelung von permanenterregten Synchronmaschinen. Automatisierungstechnik, 2015, 63, 739-750.	0.8	0
322	Nonlinear observability of grinding mill conditions. IFAC-PapersOnLine, 2016, 49, 13-18.	0.9	0
323	A Mathematical Model of a Horizontal Direct-Fired Strip Annealing Furnace. IFAC-PapersOnLine, 2016, 49, 202-207.	0.9	0
324	Analysis and system optimization of a very low frequency high-voltage test system. IFAC-PapersOnLine, 2016, 49, 294-300.	0.9	0

#	Article	IF	Citations
325	Evaluation of Efficiently Generating Fast Robot Trajectories Under Geometric and System Constraints**The authors are grateful to STIWA Automation GmbH for financial and technical support.. IFAC-PapersOnLine, 2016, 49, 395-402.	0.9	0
326	A Numerical Implementation of an Extended Luenberger Observer for a Class of Semilinear Hyperbolic PIDEs. IFAC-PapersOnLine, 2016, 49, 216-221.	0.9	0
327	Notice of Removal Optimization of a very low frequency (VLF) high-voltage cable test system. , 2016, , .		0
328	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.	0.9	0
329	Optimal torque control of PMSMs with redundant stator coils in case of open circuit faults. , 2017, , .		0
330	Identifikation und Simulation optischer VerstÃrker fÃ¼r ultra-kurze Laserpulse. Automatisierungstechnik, 2018, 66, 66-78.	0.8	0
331	Nichtlineare modellprÃdiktive Regelung eines AbwÃrmerÃ¼ckgewinnungssystems fÃ¼r LKW-Dieselmotoren. Automatisierungstechnik, 2019, 67, 129-144.	0.8	0
332	Optimal feedforward control of hydraulic drive systems with long pipelines. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900195.	0.2	0
333	Optimal Current Slew Rate Control for a Three-Phase MOSFET Inverter Driving a PMSM. IFAC-PapersOnLine, 2019, 52, 85-90.	0.9	0
334	Fast Swing-Up Trajectory Optimization for a Spherical Pendulum on a 7-DoF Collaborative Robot. , 2021, , .		0
335	Hardware implementation of an electrostatic MEMS-actuator linearization. Proceedings of SPIE, 2011, , .	0.8	0
336	Combined Feedforward/Model Predictive Tracking Control Design for Nonlinear Diffusion-Convection-Reaction-Systems. International Federation for Information Processing, 2013, , 296-305.	0.4	0
337	Univ.-Prof. Dr. Kurt Schlacher zum 60. Geburtstag. Automatisierungstechnik, 2015, 63, 669-671.	0.8	0
338	Pfadfolgeregelung mit Konzepten fÃ¼r den Pfadfortschritt: Ein Assemblierungsszenario. Automatisierungstechnik, 2020, 68, 44-57.	0.8	0
339	Automatic Yaw Rotation of Plates on Roller Tables. IFAC-PapersOnLine, 2021, 54, 19-24.	0.9	0
340	Estimation of Quality Parameters of Trimmed Steel Plates using Laser Sensors. IFAC-PapersOnLine, 2020, 53, 11848-11853.	0.9	0
341	Reheating time optimization for metal products in batch-type furnaces. International Journal of Heat and Mass Transfer, 2022, 186, 122474.	4.8	0
342	Multi-Dimensional Control Performance Assessment for Mechatronic Closed-Loop Systems. , 2021, , .		0