

Chung Choo Chung

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3957929/publications.pdf>

Version: 2024-02-01

231
papers

3,668
citations

236612

25
h-index

233125

45
g-index

234
all docs

234
docs citations

234
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	Sequence-to-Sequence Prediction of Vehicle Trajectory via LSTM Encoder-Decoder Architecture. , 2018, , .		282
2	Probabilistic vehicle trajectory prediction over occupancy grid map via recurrent neural network. , 2017, , .		233
3	High-Gain Disturbance Observer-Based Backstepping Control With Output Tracking Error Constraint for Electro-Hydraulic Systems. IEEE Transactions on Control Systems Technology, 2015, 23, 787-795.	3.2	220
4	Nonlinear control of a swinging pendulum. Automatica, 1995, 31, 851-862.	3.0	209
5	Disturbance-Observer-Based Position Tracking Controller in the Presence of Biased Sinusoidal Disturbance for Electrohydraulic Actuators. IEEE Transactions on Control Systems Technology, 2013, 21, 2290-2298.	3.2	135
6	Robust Multirate Control Scheme With Predictive Virtual Lanes for Lane-Keeping System of Autonomous Highway Driving. IEEE Transactions on Vehicular Technology, 2015, 64, 3378-3391.	3.9	118
7	Output feedback nonlinear control for electro-hydraulic systems. Mechatronics, 2012, 22, 766-777.	2.0	114
8	Improved Direct Power Control for Grid-Connected Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2018, 65, 8041-8051.	5.2	97
9	Converse Lyapunov functions for exponentially stable periodic orbits. Systems and Control Letters, 1994, 23, 27-34.	1.3	93
10	Microstepping Using a Disturbance Observer and a Variable Structure Controller for Permanent-Magnet Stepper Motors. IEEE Transactions on Industrial Electronics, 2013, 60, 2689-2699.	5.2	72
11	Torque-Overlay-Based Robust Steering Wheel Angle Control of Electrical Power Steering for a Lane-Keeping System of Automated Vehicles. IEEE Transactions on Vehicular Technology, 2016, 65, 4379-4392.	3.9	66
12	Design and Implementation of Simple Field-Oriented Control for Permanent Magnet Stepper Motors Without DQ Transformation. IEEE Transactions on Magnetics, 2011, 47, 4231-4234.	1.2	52
13	Adaptive Output Regulation for the Rejection of a Periodic Disturbance With an Unknown Frequency. IEEE Transactions on Control Systems Technology, 2011, 19, 1296-1304.	3.2	50
14	Comparative evaluation of dynamic and kinematic vehicle models. , 2014, , .		44
15	LPV H_{∞} Control with Disturbance Estimation for Permanent Magnet Synchronous Motors. IEEE Transactions on Industrial Electronics, 2018, 65, 488-497.	5.2	43
16	Passivity-Based Control With Nonlinear Damping for Type 2 STATCOM Systems. IEEE Transactions on Power Systems, 2016, 31, 2824-2833.	4.6	41
17	The Lyapunov-based controller with a passive nonlinear observer to improve position tracking performance of microstepping in permanent magnet stepper motors. Automatica, 2012, 48, 3064-3074.	3.0	39
18	Microstepping With Nonlinear Torque Modulation for Permanent Magnet Stepper Motors. IEEE Transactions on Control Systems Technology, 2013, 21, 1971-1979.	3.2	36

#	ARTICLE	IF	CITATIONS
19	Control Methods in Data-Storage Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 296-322.	3.2	35
20	Robust Multirate On-Road Vehicle Localization for Autonomous Highway Driving Vehicles. IEEE Transactions on Control Systems Technology, 2017, 25, 577-589.	3.2	35
21	Multirate Lane-Keeping System With Kinematic Vehicle Model. IEEE Transactions on Vehicular Technology, 2018, 67, 9211-9222.	3.9	35
22	On-Road Path Generation and Control for Waypoints Tracking. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 36-45.	2.6	34
23	Dual-stage actuator disk drives for improved servo performance: track follow, track seek, and settle. IEEE Transactions on Magnetics, 2001, 37, 1887-1890.	1.2	31
24	Optimized Structured Treatment Interruption for HIV Therapy and Its Performance Analysis on Controllability. IEEE Transactions on Biomedical Engineering, 2006, 53, 380-386.	2.5	31
25	Direct power control of grid connected voltage source inverters using port-controlled Hamiltonian system. International Journal of Control, Automation and Systems, 2017, 15, 2053-2062.	1.6	29
26	Observer-based backstepping control method using reduced lateral dynamics for autonomous lane-keeping system. ISA Transactions, 2018, 83, 214-226.	3.1	28
27	Grid voltage modulated direct power control for grid connected voltage source inverters. , 2017, , .		27
28	Maximum Power Point Tracking of a Wind Power Plant With Predictive Gradient Ascent Method. IEEE Transactions on Sustainable Energy, 2017, 8, 685-694.	5.9	27
29	Discrete-time LQG/LTR dual-stage controller design in magnetic disk drives. IEEE Transactions on Magnetics, 2001, 37, 1891-1895.	1.2	26
30	Robust Fast Seek Control of a Servo Track Writer Using a State Space Disturbance Observer. IEEE Transactions on Control Systems Technology, 2012, 20, 346-355.	3.2	26
31	Coordinated Control of Wind Turbine and Energy Storage System for Reducing Wind Power Fluctuation. Energies, 2018, 11, 52.	1.6	26
32	Predictive virtual lane method using relative motions between a vehicle and lanes. International Journal of Control, Automation and Systems, 2015, 13, 146-155.	1.6	25
33	Phase-Compensated Microstepping for Permanent-Magnet Stepper Motors. IEEE Transactions on Industrial Electronics, 2013, 60, 5773-5780.	5.2	24
34	Lane estimation using a vehicle kinematic lateral motion model under clothoidal road constraints. , 2014, , .		24
35	Robust output feedback control for unknown non-linear systems with external disturbance. IET Control Theory and Applications, 2016, 10, 173-182.	1.2	24
36	Nonlinear H_2 Control for a Nonlinear System With Bounded Varying Parameters: Application to PM Stepper Motors. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1349-1359.	3.7	24

#	ARTICLE	IF	CITATIONS
37	Nonlinear H ∞ control around periodic orbits. <i>Systems and Control Letters</i> , 1997, 30, 127-137.	1.3	22
38	Design and analysis of dual-stage servo system for high track density HDDs. <i>Microsystem Technologies</i> , 2002, 8, 161-168.	1.2	22
39	Active high-frequency vibration rejection in hard disk drives. <i>IEEE/ASME Transactions on Mechatronics</i> , 2006, 11, 339-345.	3.7	21
40	Simplified torque modulated microstepping for position control of permanent magnet stepper motors. <i>Mechatronics</i> , 2016, 35, 162-172.	2.0	21
41	Integral sliding mode control with a disturbance observer for next-generation servo track writing. <i>Mechatronics</i> , 2016, 40, 106-114.	2.0	21
42	Two degree-of-freedom dual-stage actuator controller design for hard disk drives. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 2255-2257.	1.2	20
43	Novel clamping force control for electric parking brake systems. <i>Mechatronics</i> , 2011, 21, 1156-1162.	2.0	20
44	Analysis and design of servomechanism and its application to disk drives. <i>IEEE Transactions on Control Systems Technology</i> , 2003, 11, 233-241.	3.2	19
45	Vehicle Path Prediction Using Yaw Acceleration for Adaptive Cruise Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 3818-3829.	4.7	19
46	Discrete-time nonlinear damping backstepping control with observers for rejection of low and high frequency disturbances. <i>Mechanical Systems and Signal Processing</i> , 2018, 104, 436-448.	4.4	19
47	Kinematics-based Fault-tolerant Techniques: Lane Prediction for an Autonomous Lane Keeping System. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 1293-1302.	1.6	19
48	Radar Accuracy Modeling and Its Application to Object Vehicle Tracking. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 3146-3158.	1.6	19
49	Multirate active steering control for autonomous vehicle lateral maneuvering. , 2012, , .		18
50	Robust Camera Lidar Sensor Fusion Via Deep Gated Information Fusion Network. , 2018, , .		18
51	Improved low-voltage ride through capability for PMSG wind turbine based on port-controlled hamiltonian system. <i>International Journal of Control, Automation and Systems</i> , 2016, 14, 1195-1204.	1.6	17
52	Autonomous Vehicle Lateral Maneuvering by Approximate Explicit Predictive Control. , 2018, , .		17
53	Design of a New Multi-Loop Disturbance Observer for Optical Disk Drive Systems. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2224-2227.	1.2	16
54	Novel Position Detection Method for Permanent Magnet Stepper Motors Using Only Current Feedback. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3590-3593.	1.2	16

#	ARTICLE	IF	CITATIONS
55	Discrete-Time LPV Observer With Nonlinear Bounded Varying Parameter and Its Application to the Vehicle State Observer. IEEE Transactions on Industrial Electronics, 2018, 65, 8768-8777.	5.2	16
56	Clamping Force Control for an Electric Parking Brake System: Switched System Approach. IEEE Transactions on Vehicular Technology, 2013, 62, 2937-2948.	3.9	15
57	Predictive control with sliding mode for autonomous driving vehicle lateral maneuvering. , 2017, , .		15
58	Nonlinear Steering Wheel Angle Control Using Self-Aligning Torque with Torque and Angle Sensors for Electrical Power Steering of Lateral Control System in Autonomous Vehicles. Sensors, 2018, 18, 4384.	2.1	15
59	Lateral Control System for Autonomous Lane Change System on Highways. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 9, 877-884.	0.4	14
60	Dynamic Extension Algorithm-Based Tracking Control of STATCOM Via Port-Controlled Hamiltonian System. IEEE Transactions on Industrial Informatics, 2020, 16, 5076-5087.	7.2	14
61	Multirate digital control for high track density magnetic disk drives. IEEE Transactions on Magnetics, 2003, 39, 832-837.	1.2	13
62	Autonomous-Driving Vehicle Control With Composite Velocity Profile Planning. IEEE Transactions on Control Systems Technology, 2021, 29, 2079-2091.	3.2	13
63	Local Path Planning Using Artificial Potential Field for Waypoint Tracking with Collision Avoidance. , 2020, , .		13
64	Atomic force microscope anodization lithography using pulsed bias voltage synchronized with resonance frequency of cantilever. Nanotechnology, 2005, 16, 2082-2085.	1.3	12
65	Fault detection method for electric parking brake (EPB) systems with sensorless estimation using current ripples. International Journal of Automotive Technology, 2010, 11, 387-394.	0.7	12
66	Slip Angle Estimation: Development and Experimental Evaluation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 286-291.	0.4	12
67	GPS waypoint fitting and tracking using model predictive control. , 2015, , .		12
68	Proximate In-Phase Current Estimator to Reduce Torque Ripple in Permanent-Magnet Stepping Motor. IEEE Transactions on Industrial Electronics, 2016, 63, 1707-1716.	5.2	12
69	Linear Parameter Varying Design for Lateral Control using Kinematics of Vehicle Motion. , 2018, , .		12
70	Nonlinear Hybrid Impedance Control for Steering Control of Rack-Mounted Electric Power Steering in Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2956-2965.	4.7	12
71	Reconstruction of a scanned topographic image distorted by the creep effect of a Z scanner in atomic force microscopy. Review of Scientific Instruments, 2011, 82, 053709.	0.6	11
72	A comparative study of lane keeping system: Dynamic and kinematic models with look-ahead distance. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
73	On-Road Vehicle Localization with GPS under Long Term Failure of a Vision Sensor. , 2015, , .		11
74	Enhanced nonlinear damping for a class of singularly perturbed interconnected nonlinear systems. Automatica, 2016, 65, 36-42.	3.0	11
75	A Lyapunov method in microstepping control for Permanent Magnet stepper motors. , 2009, , .		10
76	Sliding mode control based on singular perturbation theory for position tracking of permanent magnet stepper motors. , 2013, , .		10
77	Vehicle lateral motion estimation with its dynamic and kinematic models based interacting multiple model filter. , 2016, , .		10
78	Driving environment assessment and decision making for cooperative lane change system of autonomous vehicles. Asian Journal of Control, 2021, 23, 1135-1145.	1.9	10
79	Automated Perpendicular Parking System With Approximated Clothoid-Based Local Path Planning. , 2021, 5, 1940-1945.		10
80	Model Predictive Path Planning Based on Artificial Potential Field and Its Application to Autonomous Lane Change. , 2020, , .		10
81	Control Design for Self-Servo Track Writing Using a State-Space Disturbance Observer. IEEE Transactions on Magnetics, 2009, 45, 5094-5099.	1.2	9
82	Bias Compensation for Fast Servo Track Writer Seek Control. IEEE Transactions on Magnetics, 2011, 47, 1937-1943.	1.2	9
83	Passivity-based control with nonlinear damping for STATCOM system. , 2012, , .		9
84	Vehicle trajectory prediction for adaptive cruise control. , 2015, , .		9
85	Discrete-Time Integral Sliding Model Predictive Control for Dynamic Lateral Motion of Autonomous Driving Vehicles. , 2018, , .		9
86	Reference Modulation for Performance Enhancement of Motion Control Systems With Nonlinear Parameter Variations. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2040-2051.	3.7	9
87	Autonomous Lane Keeping Control System Based on Road Lane Model Using Deep Convolutional Neural Networks. , 2019, , .		9
88	Horizonwise Model-Predictive Control With Application to Autonomous Driving Vehicle. IEEE Transactions on Industrial Informatics, 2022, 18, 6940-6949.	7.2	9
89	Potential field-based path planning for emergency collision avoidance with a clothoid curve in waypoint tracking. Asian Journal of Control, 2022, 24, 1074-1087.	1.9	9
90	Design of fuzzy PD + I controller for tracking control. , 2002, , .		8

#	ARTICLE	IF	CITATIONS
91	Optimal Switching In Structured Treatment Interruption For Hiv Therapy. Asian Journal of Control, 2006, 8, 290-296.	1.9	8
92	Direct power control for three phase grid connected inverter via port-controlled Hamiltonian method. , 2015, , .		8
93	Predictive risk assessment using cooperation concept for collision avoidance of side crash in autonomous lane change systems. , 2017, , .		8
94	Lane Change Intention Classification of Surrounding Vehicles Utilizing Open Set Recognition. IEEE Access, 2021, , 1-1.	2.6	8
95	Robust Vehicular Lane-Tracking Control With a Winding Road Disturbance Compensator. IEEE Transactions on Industrial Informatics, 2021, 17, 6125-6133.	7.2	8
96	Lateral Vehicle Trajectory Planning Using a Model Predictive Control Scheme for an Automated Perpendicular Parking System. IEEE Transactions on Industrial Electronics, 2023, 70, 1820-1829.	5.2	8
97	Sliding mode control design using fast output sampling. , 0, , .		7
98	Output tracking control with enhanced damping of internal dynamics and its output boundedness. , 2010, , .		7
99	Adaptive side slip angle observer using simple combined vehicle dynamics. , 2013, , .		7
100	Model predictive control in dynamic economic dispatch using Weibull distribution. , 2013, , .		7
101	Coordinated wind power plant control for frequency support under wake effects. , 2015, , .		7
102	Stabilisation of asymmetrically structured back-to-back static synchronous compensator system with non-linear damping control. IET Power Electronics, 2015, 8, 1952-1962.	1.5	7
103	Lane keeping system based on kinematic model with road friction coefficient adaptation. , 2016, , .		7
104	Object detection in adaptive cruise control using multi-class support vector machine. , 2017, , .		7
105	Waypoint tracking predictive control with vehicle speed variation. , 2017, , .		7
106	Object Vehicle Tracking by Convex Interpolation with Radar Accuracy. , 2019, , .		7
107	Data-Driven Object Vehicle Estimation by Radar Accuracy Modeling with Weighted Interpolation. Sensors, 2021, 21, 2317.	2.1	7
108	LPV Hà,, State Feedback Controller for Automated Parking System. , 2022, 6, 572-577.		7

#	ARTICLE	IF	CITATIONS
109	Encoder Calibration Method for High Precision Servo Systems With a Sinusoidal Encoder. IEEE Transactions on Industrial Electronics, 2022, 69, 752-762.	5.2	7
110	Adaptive observer-based nonlinear control in microstepping for permanent magnet stepper motors. , 2010, , .		6
111	Design of the Tracking Controller for Holographic Digital Data Storage. IEEE/ASME Transactions on Mechatronics, 2010, 15, 242-252.	3.7	6
112	Adaptive digital demodulation of sinusoidal encoder signal for positioning control of spiral servo track writing. Microsystem Technologies, 2012, 18, 1247-1253.	1.2	6
113	Uniform output regulation via approximated input-output linearisation for lightly damped internal dynamics. International Journal of Control, 2013, 86, 159-171.	1.2	6
114	Lateral control for autonomous lane keeping system on highways. , 2015, , .		6
115	H _∞ control based on LPV for load torque compensation of PMSM. , 2015, , .		6
116	Parametric trajectory prediction of surrounding vehicles. , 2017, , .		6
117	Nonlinear Control With State-Dependant Reset Integrator for a Class of Singularly Perturbed Interconnected Nonlinear Systems. IEEE Transactions on Control Systems Technology, 2017, 25, 1193-1203.	3.2	6
118	Trajectory Folding-based Path Planning for Automated Parking System. , 2018, , .		6
119	Approximate Model Predictive Control with Recurrent Neural Network for Autonomous Driving Vehicles. , 2019, , .		6
120	Nonlinear Gain Position Control Using Only Position Feedback for Permanent Magnet Stepper Motors. IEEE Transactions on Power Electronics, 2021, 36, 8506-8516.	5.4	6
121	Servo controller design for high-bandwidth HDDs. IEEE Transactions on Magnetics, 2002, 38, 2177-2179.	1.2	5
122	Multirate output feedback control and its application to galvanometer servo systems. , 0, , .		5
123	Design of seek control of hard disk drive using discrete-time sliding mode control. , 0, , .		5
124	New position error signal generation method for SPM based data storage system. Microsystem Technologies, 2009, 15, 1663-1674.	1.2	5
125	Lyapunov-based microstepping control of Sawyer motors with PID control. , 2010, , .		5
126	Lyapunov-based control in microstepping with a nonlinear observer for permanent magnet stepper motors. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
127	Position control of a permanent magnet stepper motor by MISO backstepping in semi-strict feedback form. , 2011, , .		5
128	Microstepping with nonlinear torque modulation for position tracking control in permanent magnet stepper motors. , 2011, , .		5
129	A model-free method for wind power plant control with variable wind. , 2014, , .		5
130	Nonlinear Controller With the Dead-Zone and Saturation for Optical Disk Drive Systems in the Presence of External Shocks. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1458-1463.	3.7	5
131	Temporary primary frequency control support by deloaded wind power plant using input-output linearization. , 2016, , .		5
132	Sliding mode control for LVRT of a PMSG wind turbine using stored energy in rotor inertia. , 2016, , .		5
133	Backstepping Control Method with Sliding Mode Observer for Autonomous Lane Keeping System. IFAC-PapersOnLine, 2017, 50, 6989-6995.	0.5	5
134	Multi-rate vehicle side slip angle estimation using low-cost GPS/IMU. , 2017, , .		5
135	Coordinated control of wind turbine and energy storage system for reducing wind power fluctuation. , 2017, , .		5
136	A Comparative Study of Estimating Road Surface Condition Using Support Vector Machine and Deep Neural Networ. , 2019, , .		5
137	SAFE-STOP System: Tactical Intention Awareness Based Emergency Collision Avoidance for Malicious Cut-in of Surrounding Vehicle. , 2021, , .		5
138	Vehicular Lateral Tracking Control with Winding Road Disturbance Compensation. IFAC-PapersOnLine, 2020, 53, 15699-15704.	0.5	5
139	Multirate digital control system design. , 2002, , .		4
140	Robust control using a state space disturbance observer. , 0, , .		4
141	Robust high order augmented observer based control for nonlinear systems. , 2012, , .		4
142	Nonlinear control based on singular perturbation theory for position tracking of permanent magnet stepper motors. , 2012, , .		4
143	Predictive virtual lane using relative motions between a vehicle and lanes. , 2013, , .		4
144	Economic dispatch for wind farm using model predictive control method. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
145	Intra-day unit commitment for wind farm using model predictive control method. , 2013, , .		4
146	Flatness based angle control with augmented observer for electric power steering in autonomous vehicles. , 2017, , .		4
147	Vision-based autonomous indoor valet parking system. , 2017, , .		4
148	Lane Change Control with Optimal Time-varying Sliding Mode in Automated Driving Vehicle. , 2020, , .		4
149	Autonomous Driving Vehicles with Unmatched Disturbance Compensation using Deep Neural Networks. , 2019, , .		4
150	Radar-Based Lane Estimation with Deep Neural Network for Lane-Keeping System of Autonomous Highway Driving. , 2020, , .		4
151	Local Trajectory Planning for Lane Change Based on Global Waypoint Map. , 2020, , .		4
152	Linear Parameter Varying Models-Based Gain-Scheduling Control for Lane Keeping System With Parameter Reduction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20746-20756.	4.7	4
153	Design of a multi-rate controller and its application to galvanometer servo systems. , 2001, , .		3
154	Constant Drug Dose Leading Long-Term Non-Progressor for HIV-Infected Patients with RTI and PI. , 0, , .		3
155	A nonlinear control for a BTB STATCOM system with asymmetrically structured converters. , 2011, , .		3
156	Proximate model predictive control strategy for autonomous vehicle lateral control. , 2012, , .		3
157	Novel passivity-based controller design for Back-to-back STATCOM with asymmetrically structured converters. , 2012, , .		3
158	Tracking controller design methodology for passive port-controlled Hamiltonians with application to type-2 STATCOM systems. , 2013, , .		3
159	H<inf>2</inf> control based on LPV for speed control of permanent magnet synchronous motors. , 2014, , .		3
160	Robust Real-time Optimal Autonomous Highway Driving Control System: Development and Implementation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10706-10712.	0.4	3
161	Nonlinear adaptive speed control for permanent magnet synchronous motors under unbalanced resistances. , 2015, , .		3
162	A sliding mode based model predictive control structure for permanent magnet synchronous motor. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
163	Nonlinear control for PMSG wind turbine via port-controlled Hamiltonian system. , 2015, , .		3
164	Interacting Multiple Model Kalman Filter Based Vehicle Lateral Motion Estimation Under Various Road Surface Conditions. , 2018, , .		3
165	Nonlinear Backstepping Control Design for Coupled Nonlinear Systems under External Disturbances. Complexity, 2019, 2019, 1-13.	0.9	3
166	Waypoint Tracking for Collision Avoidance Using Artificial Potential Field. , 2020, , .		3
167	A Local Path Planning for Perpendicular Parking in Limited Parking Spaces. , 2020, , .		3
168	Position Estimation of Stepping Motor Using Adaptive Gain Super Twisting Algorithm Sliding Mode Observer. , 2021, , .		3
169	Robust Control for Lane Keeping System Using a Linear Parameter Varying Approach with Scheduling Variables Reduction. International Journal of Control, Automation and Systems, 2022, 20, 2097-2106.	1.6	3
170	Multirate digital sliding mode control. , 2002, , .		2
171	An approach to discrete-time sliding mode control. , 0, , .		2
172	Implementation of a Position Error Signal for Scanning Probe Microscopy-Based Data Storage Systems. IEEE Transactions on Magnetics, 2009, 45, 2324-2327.	1.2	2
173	Observer-based variable structure control in microstepping for permanent magnet stepper motors. , 2010, , .		2
174	High gain observer based nonlinear position control for electro-hydraulic servo systems. , 2010, , .		2
175	Advanced flattening method for scanned atomic force microscopy images. Journal of the Korean Physical Society, 2012, 60, 680-683.	0.3	2
176	Minimizing Residual Vibration With Resonance Filter for Nonminimum-Phase Plants. IEEE Transactions on Magnetics, 2013, 49, 2657-2660.	1.2	2
177	Nonlinear H _∞ control for position tracking of permanent magnet stepper motors. , 2013, , .		2
178	A Coordinated LVRT Control for a PMSG Wind Turbine. IFAC-PapersOnLine, 2017, 50, 8758-8763.	0.5	2
179	Special Issue on 2015 IEEE Intelligent Vehicle Symposium (IV?15) [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 6-7.	2.6	2
180	Backstepping control design for the second-order electric power steering system using augmented observer. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
181	Multi object-based predictive virtual lane. , 2017, , .		2
182	Recurrent End-to-End Neural Network Design with Temporal Dependencies for Model-Free Lane Keeping Systems. , 2019, , .		2
183	Decision Methodology Based on Dynamic Occupancy Grid Zone for Autonomous Lane Change System on Highways. , 2019, , .		2
184	Constant drug dose in human immunodeficiency virus-infected patients to induce long-term non-progressor status: bifurcation and controllability approach. IET Systems Biology, 2013, 7, 79-88.	0.8	2
185	Collision Detection System for Lane Change on Multi-lanes Using Convolution Neural Network. , 2021, , .		2
186	Decision of Driver Intention of a Surrounding Vehicle Using Hidden Markov Model with Optimizing Parameter Estimation. , 2020, , .		2
187	Predictive Collision Avoidance Control with Optimized Ride Comfort in Vehicle Lateral Motion Control. , 2020, , .		2
188	Vehicle Longitudinal Control with Velocity Profile for Stop and Go Operation. , 2020, , .		2
189	Vehicle Localization Using Radar Calibration with Disconnected GPS. , 2021, , .		2
190	Nonlinear Proportional-Integral Disturbance Observers for Motion Control of Permanent Magnet Synchronous Motors. , 2022, 6, 3062-3067.		2
191	Analysis of Treatment for HIV-infected Patients Considering CD4 T Cell Count in STI. , 2006, , .		1
192	An approach to discrete-time sliding mode control with variable convergence rate to sliding surface. , 2008, , .		1
193	A Discrete-Time Modified Sliding Mode Proximate Time-Optimal Servomechanism for Scanning-Probe-Microscope-Based Data Storage. IEEE Transactions on Magnetics, 2008, 44, 3750-3753.	1.2	1
194	Seek and Track-Follow for Scanning Probe Microscopy-Based Data Storage. IEEE Transactions on Magnetics, 2009, 45, 3695-3698.	1.2	1
195	Guest Editorial Introduction to the Special Section on Advanced Servo Control for Emerging Data Storage Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 292-295.	3.2	1
196	Sliding mode observer for vehicle states estimation. , 2013, , .		1
197	Nonlinear position control for permanent magnet stepper motor using only position feedback. , 2013, , .		1
198	Multilevel approximate model predictive control and its application to autonomous vehicle active steering. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
199	Nonlinear adaptive speed control for permanent magnet synchronous motors under the unbalanced resistances of phase windings. , 2014, , .		1
200	A simplified nonlinear control for sawyer motors based on singular perturbation theory. , 2014, , .		1
201	Phase Shift Calibration Method in Optical Sinusoidal Encoder Signals Applied to Servo Track Writer. IFAC-PapersOnLine, 2016, 49, 1-6.	0.5	1
202	Discrete-time LPV H2 observer for vehicle model-based state observer. , 2017, , .		1
203	Kalman Filter based Path Generation and Tracking Control for Autonomous In-door Valet Parking System. , 2019, , .		1
204	H $\hat{\alpha}$ Control Using Linear Parameter Varying Approach for Motion Control Systems Under Communication Delays: Application to PMSM. Journal of Electrical Engineering and Technology, 2020, 15, 1797-1809.	1.2	1
205	Automated Perpendicular Parking System With Approximated Clothoid-Based Local Path Planning. , 2021, , .		1
206	Active high frequency vibration rejection in hard disk drives. , 2004, , .		1
207	Adaptive Feedforward Compensator Based on Approximated Causal Transfer Function for CACC with Communication Delay. IFAC-PapersOnLine, 2020, 53, 15192-15197.	0.5	1
208	On-Road Object Collision Point Estimation by Radar Sensor Data Fusion. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14753-14763.	4.7	1
209	Multi-Model Recurrent Neural Network Control for Lane Change Systems under Speed Variation. , 2020, , .		1
210	Relationships between input-output stability and exponentially stable periodic orbits. , 1998, , .		0
211	Two degree-of-freedom dual-stage actuator controller design for hard disk drives. , 0, , .		0
212	Multirate digital control for high track density magnetic disk drives. , 0, , .		0
213	Dual-stage servo system for computer disk drives: design and application results. , 0, , .		0
214	Optimal sliding mode dual-stage actuator control for magnetic disk drives. , 2004, , .		0
215	Multirate digital control system design using lifting technique. , 2007, , .		0
216	Design of robust controller for high performance servo track writer. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
217	Design of Tracking Controller for Holographic Digital Data Storage. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	0
218	Computational eigenstructure assignment in linear multivariable systems. , 2008, , .		0
219	Analysis of sliding mode proximate time-optimal disk drive servo control. Microsystem Technologies, 2011, 17, 1083-1090.	1.2	0
220	Flatness based control with adaptive load torque compensation for position tracking of electro hydraulic actuators. , 2011, , .		0
221	A modified discrete-time sliding mode control for proximate time-optimal servomechanisms. , 2012, , .		0
222	Position control of active magnetic bearings using linear parameter varying synthesis. , 2013, , .		0
223	Robust nonlinear position control with conditional reset integrator for permanent magnet stepper motors. , 2013, , .		0
224	Sliding mode controller for Sawyer motors based on singular perturbation theory. , 2015, , .		0
225	Discrete-time output feedback nonlinear control for combined low-and high-frequency disturbance compensation. , 2015, , .		0
226	Nonlinear damping control for interconnected nonlinear systems. , 2015, , .		0
227	Integral sliding mode control for type 2 statcom systems via input-output linearization with dynamic extension. , 2015, , .		0
228	Observer based nonlinear control using barrier Lyapunov function for position tracking of Sawyer motor under yaw constraint. , 2016, , .		0
229	MC-10 HIGH FREQUENCY VIBRATION REJECTION IN HARD DISK DRIVES. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2003, 2003, 24-25.	0.0	0
230	Lane Change Intention Inference of Surrounding Vehicle: Comparative Study on Relevance Vector Machine (RVM) and Support Vector Machine (SVM). , 2021, , .		0
231	Predictive Control for Waypoint Path Settling Maneuver with Robustness to Initial Vehicle Pose. , 2021, , .		0