Dongkyoung Chwa

List of Publications by Year
in descending order

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63	2,556	236612	223531
papers	citations	25 h-index	46 g-index

63	63	63	2010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sliding-Mode Tracking Control of Nonholonomic Wheeled Mobile Robots in Polar Coordinates. IEEE Transactions on Control Systems Technology, 2004, 12, 637-644.	3.2	326
2	Adaptive Bidirectional Platoon Control Using a Coupled Sliding Mode Control Method. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2040-2048.	4.7	229
3	Global Tracking Control of Underactuated Ships With Input and Velocity Constraints Using Dynamic Surface Control Method. IEEE Transactions on Control Systems Technology, 2011, 19, 1357-1370.	3.2	175
4	Decentralized behavior-based formation control of multiple robots considering obstacle avoidance. Intelligent Service Robotics, 2018, 11, 127-138.	1.6	156
5	Swing-Up and Stabilization Control of Inverted-Pendulum Systems via Coupled Sliding-Mode Control Method. IEEE Transactions on Industrial Electronics, 2009, 56, 3541-3555.	5.2	137
6	Tracking Control of Differential-Drive Wheeled Mobile Robots Using a Backstepping-Like Feedback Linearization. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 1285-1295.	3.4	133
7	Antisway Tracking Control of Overhead Cranes With System Uncertainty and Actuator Nonlinearity Using an Adaptive Fuzzy Sliding-Mode Control. IEEE Transactions on Industrial Electronics, 2008, 55, 3972-3984.	5.2	129
8	Fuzzy Adaptive Tracking Control of Wheeled Mobile Robots With State-Dependent Kinematic and Dynamic Disturbances. IEEE Transactions on Fuzzy Systems, 2012, 20, 587-593.	6.5	105
9	Adaptive nonlinear guidance law considering control loop dynamics. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 1134-1143.	2.6	102
10	Sliding-Mode-Control-Based Robust Finite-Time Antisway Tracking Control of 3-D Overhead Cranes. IEEE Transactions on Industrial Electronics, 2017, 64, 6775-6784.	5.2	98
11	Nonlinear Tracking Control of 3-D Overhead Cranes Against the Initial Swing Angle and the Variation of Payload Weight. IEEE Transactions on Control Systems Technology, 2009, 17, 876-883.	3.2	93
12	Adaptive Sliding-Mode Antisway Control of Uncertain Overhead Cranes With High-Speed Hoisting Motion. IEEE Transactions on Fuzzy Systems, 2014, 22, 1262-1271.	6.5	89
13	Hierarchical Formation Control Based on a Vector Field Method for Wheeled Mobile Robots. IEEE Transactions on Robotics, 2012, 28, 1335-1345.	7.3	82
14	Variable Structure Control of the Active and Reactive Powers for a DFIG in Wind Turbines. IEEE Transactions on Industry Applications, 2010, 46, 2545-2555.	3.3	50
15	Range and Motion Estimation of a Monocular Camera Using Static and Moving Objects. IEEE Transactions on Control Systems Technology, 2016, 24, 1174-1183.	3.2	49
16	Robust Distance-Based Tracking Control of Wheeled Mobile Robots Using Vision Sensors in the Presence of Kinematic Disturbances. IEEE Transactions on Industrial Electronics, 2016, 63, 6172-6183.	5.2	46
17	Observer-based adaptive guidance law considering target uncertainties and control loop dynamics. IEEE Transactions on Control Systems Technology, 2006, 14, 112-123.	3.2	45
18	Robust Swing-Up and Balancing Control Using a Nonlinear Disturbance Observer for the Pendubot System With Dynamic Friction. IEEE Transactions on Robotics, 2015, 31, 331-343.	7.3	44

#	Article	IF	Citations
19	Adaptive control for feedback-linearized missiles with uncertainties. IEEE Transactions on Aerospace and Electronic Systems, 2000, 36, 467-481.	2.6	41
20	Compensation of Actuator Dynamics in Nonlinear Missile Control. IEEE Transactions on Control Systems Technology, 2004, 12, 620-626.	3.2	40
21	Coupled Multiple Sliding-Mode Control for Robust Trajectory Tracking of Hovercraft With External Disturbances. IEEE Transactions on Industrial Electronics, 2018, 65, 4103-4113.	5.2	40
22	Robust Nonlinear Disturbance Observer Based Adaptive Guidance Law Against Uncertainties in Missile Dynamics and Target Maneuver. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1739-1749.	2.6	39
23	Orbital Stabilization of Inverted-Pendulum Systems via Coupled Sliding-Mode Control. IEEE Transactions on Industrial Electronics, 2009, 56, 3556-3570.	5.2	35
24	Robust Disturbance Observer-Based Feedback Linearization Control for a Research Reactor Considering a Power Change Rate Constraint. IEEE Transactions on Nuclear Science, 2015, 62, 1301-1312.	1.2	29
25	Sliding-Mode-Disturbance-Observer-Based Robust Tracking Control for Omnidirectional Mobile Robots With Kinematic and Dynamic Uncertainties. IEEE/ASME Transactions on Mechatronics, 2021, 26, 741-752.	3.7	26
26	Online Trajectory Planning of Robot Arms for Interception of Fast Maneuvering Object Under Torque and Velocity Constraints. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2005, 35, 831-843.	3.4	17
27	Fuzzy Adaptive Output Feedback Tracking Control of VTOL Aircraft With Uncertain Input Coupling and Input-Dependent Disturbances. IEEE Transactions on Fuzzy Systems, 2015, 23, 1505-1518.	6.5	17
28	Feedback Linearization Control for Panel Flutter Suppression with Piezoelectric Actuators. AIAA Journal, 2005, 43, 2069-2073.	1.5	15
29	Nonlinear longitudinal acceleration control of nonminimum phase missiles with actuator dynamics. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2369-2378.	2.6	12
30	Adaptive Fuzzy Output Feedback Simultaneous Posture Stabilization and Tracking Control of Wheeled Mobile Robots With Kinematic and Dynamic Disturbances. IEEE Access, 2020, 8, 228863-228878.	2.6	12
31	An LMI approach to robust reduced-order H âˆž filter design for polytopic uncertain systems. International Journal of Control, Automation and Systems, 2009, 7, 487-494.	1.6	11
32	Camera motion estimation for 3-D structure reconstruction of moving objects. , 2012, , .		11
33	Nonlinear Robust Control of Unknown Robot Manipulator Systems With Actuators and Disturbances Using System Identification and Integral Sliding Mode Disturbance Observer. IEEE Access, 2022, 10, 35410-35421.	2.6	11
34	Adaptive control based on a parametric affine model for tail-controlled missiles. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 659-669.	2.6	10
35	Dynamic Image-Based Visual Servoing of Monocular Camera Mounted Omnidirectional Mobile Robots Considering Actuators and Target Motion via Fuzzy Integral Sliding Mode Control. IEEE Transactions on Fuzzy Systems, 2021, 29, 2068-2076.	6.5	9
36	Decoupling Control of A Class of Underactuated Mechanical Systems Based on Sliding Mode Control. , 2006, , .		7

#	Article	IF	Citations
37	Polynomial fuzzy modeling and tracking control of wheeled mobile robots via sum of squares approach. , 2009, , .		7
38	Fuzzy adaptive disturbance observer-based robust adaptive control for skid-to-turn missiles. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 468-478.	2.6	7
39	An Estimation and Compensation of the Friction in an Inverted Pendulum. , 2006, , .		6
40	Adaptive fuzzy nonlinear anti-sway trajectory tracking control of uncertain overhead cranes with high-speed load hoisting motion. , 2007, , .		6
41	Robust Tracking Control using Integral Sliding Mode Observer for Quadrotors Considering Motor and Propeller Dynamics and Disturbances. Journal of Electrical Engineering and Technology, 2021, 16, 3247-3260.	1.2	6
42	Anti-Sway Control of the Overhead Crane System using HOSM Observer. Journal of Electrical Engineering and Technology, 2016, 11, 1027-1034.	1.2	6
43	Guaranteed Cost Control of Uncertain Systems Subject to Actuator Saturation. , 2006, , .		5
44	Adaptive guaranteed cost control of a class of uncertain nonlinear systems. Electrical Engineering, 2007, 89, 245-249.	1.2	4
45	Adaptive integral sliding mode control for nuclear research reactor with system uncertainties and input perturbation. Electronics Letters, 2016, 52, 272-274.	0.5	4
46	Integral-Sliding-Mode-Observer-Based Structure and Motion Estimation of a Single Object in General Motion Using a Monocular Dynamic Camera. IEEE Access, 2020, 8, 14207-14222.	2.6	4
47	Adaptive Neural Output Feedback Tracking Control of Underactuated Ships Against Uncertainties in Kinematics and System Matrices. IEEE Journal of Oceanic Engineering, 2021, 46, 720-735.	2.1	4
48	Wavefront Method-Based Local-Path Planning for a Mobile Robot with a Vision System. , 2006, , .		3
49	Semi-Global Stabilization of A Class of Underactuated Euler-Lagrange Systems by Backstepping Approach. , 2006, , .		3
50	Vector field trajectory tracking control for wheeled mobile robots. , 2009, , .		3
51	Disturbance-estimation-based hierarchical sliding mode control of hovercraft with wind disturbance. , 2015, , .		3
52	Robust swing up and balancing control of the acrobot based on a disturbance observer. , 2015, , .		3
53	Object detection of mobile robot using data-mining algorithm. , 2007, , .		2
54	Control Strategy for Modifiable Bipedal Walking on Unknown Uneven Terrain. Journal of Electrical Engineering and Technology, 2016, 11, 1787-1792.	1.2	2

#	Article	IF	Citations
55	Deadbeat Control for Linear Systems with Input Constraints. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 3390-3393.	0.2	2
56	Adaptive Robust Swing-up and Balancing Control of Acrobot using a Fuzzy Disturbance Observer. Journal of Institute of Control, Robotics and Systems, 2016, 22, 346-352.	0.1	2
57	Vision-based corridor line detection using k-means algorithm. , 2007, , .		1
58	Nonlinear tracking control of underactuate ships based on a unified kinematic and dynamic model. , 2007, , .		1
59	Sliding Mode Disturbance Observer-Based Robust Prescribed Performance Tracking Control for Research Reactor. Journal of Electrical Engineering and Technology, 2020, 15, 215-225.	1.2	1
60	Synchronization of Two Different Unified Chaotic Systems with Unknown Mismatched Parameters via Sum of Squares Method. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1840-1847.	0.2	1
61	Fuzzy angular velocity control of mobile robots using vision system in a corridor. , 2007, , .		0
62	Fuzzy Integral Sliding Mode Observer-Based Structure and Motion Estimation of Multiple Objects Using a Monocular Camera. IEEE Transactions on Fuzzy Systems, 2022, 30, 1272-1286.	6.5	0
63	Image-based Visual Servoing Through Range and Feature Point Uncertainty Estimation of a Target for a Manipulator. Journal of Institute of Control, Robotics and Systems, 2016, 22, 403-410.	0.1	0