

Dong Eui Chang

List of Publications by Year in descending order

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58
papers

405
citations

1040056

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all docs

58
docs citations

58
times ranked

356
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Chartwise Feedback Linearization of the Quadcopter With a Thrust Positivity Preserving Dynamic Extension. IEEE Transactions on Automatic Control, 2017, 62, 4747-4752.	5.7	44
2	Humidity Sensor Based on PEDOT:PSS and Zinc Stannate Nano-composite. Journal of Electronic Materials, 2015, 44, 3992-3999.	2.2	37
3	Control of Roll-to-Roll Web Systems via Differential Flatness and Dynamic Feedback Linearization. IEEE Transactions on Control Systems Technology, 2013, 21, 1309-1317.	5.2	30
4	Stabilizability of Controlled Lagrangian Systems of Two Degrees of Freedom and One Degree of Under-Actuation by the Energy-Shaping Method. IEEE Transactions on Automatic Control, 2010, 55, 1888-1893.	5.7	22
5	A simple proof of the Pontryagin maximum principle on manifolds. Automatica, 2011, 47, 630-633.	5.0	18
6	Invariant extended Kalman filter on matrix Lie groups. Automatica, 2020, 114, 108812.	5.0	18
7	On the method of interconnection and damping assignment passivity-based control for the stabilization of mechanical systems. Regular and Chaotic Dynamics, 2014, 19, 556-575.	0.8	17
8	On controller design for systems on manifolds in Euclidean space. International Journal of Robust and Nonlinear Control, 2018, 28, 4981-4998.	3.7	16
9	Feedback Integrators. Journal of Nonlinear Science, 2016, 26, 1693-1721.	2.1	13
10	Improved Reinforcement Learning through Imitation Learning Pretraining Towards Image-based Autonomous Driving. , 2019, , .		12
11	Robust iterative learning controller design using the performance weighting function of feedback control systems. International Journal of Control, Automation and Systems, 2014, 12, 63-70.	2.7	9
12	Autonomous Driving Based on Modified SAC Algorithm through Imitation Learning Pretraining. , 2021, , .		9
13	Geometric Criteria for the Quasi-Linearization of the Equations of Motion of Mechanical Systems. IEEE Transactions on Automatic Control, 2013, 58, 1046-1050.	5.7	8
14	Discrete-time invariant extended Kalman filter on matrix Lie groups. International Journal of Robust and Nonlinear Control, 2020, 30, 4449-4462.	3.7	8
15	Model Predictive Tracking Control for Invariant Systems on Matrix Lie Groups via Stable Embedding Into Euclidean Spaces. IEEE Transactions on Automatic Control, 2020, 65, 3191-3198.	5.7	8
16	Experiments of trajectory generation and obstacle avoidance for a UGV. Proceedings of the American Control Conference, 2007, , .	0.0	7
17	Attitude control strategies overcoming the topological obstruction on SO(3). , 2017, , .		7
18	Robust Navigation for Racing Drones based on Imitation Learning and Modularization. , 2021, , .		7

#	ARTICLE	IF	CITATIONS
19	On the Damping-Induced Self-Recovery Phenomenon in Mechanical Systems with Several Unactuated Cyclic Variables. <i>Journal of Nonlinear Science</i> , 2013, 23, 1023-1038.	2.1	6
20	Characterizing the reachable set for a spacecraft with two rotors. <i>Systems and Control Letters</i> , 2013, 62, 453-460.	2.3	6
21	Passivity-based Adaptive Control of Quadrotors with Mass and Moment of Inertia Uncertainties. , 2019, , .		6
22	Time optimal control of a dielectrophoretic system. <i>Asian Journal of Control</i> , 2011, 13, 480-491.	3.0	5
23	Damping-Induced Self Recovery Phenomenon in Mechanical Systems With an Unactuated Cyclic Variable. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013, 135, .	1.6	5
24	Construction of an atlas for global flatness-based parameterization and dynamic feedback linearization of quadcopter dynamics. , 2014, , .		5
25	Feedback Integrators for Nonholonomic Mechanical Systems. <i>Journal of Nonlinear Science</i> , 2019, 29, 1165-1204.	2.1	5
26	Deep Reinforcement Learning Based Robot Arm Manipulation with Efficient Training Data through Simulation. , 2019, , .		5
27	Globally Exponentially Convergent Continuous Observers for Velocity Bias and State for Invariant Kinematic Systems on Matrix Lie Groups. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 3363-3369.	5.7	5
28	Real-time quadrotor actuator fault detection and isolation using multivariate statistical analysis techniques with sensor measurements. , 2020, , .		5
29	Multipath Lightweight Deep Network Using Randomly Selected Dilated Convolution. <i>Sensors</i> , 2021, 21, 7862.	3.8	5
30	Data-driven fault detection and isolation of system with only state measurements and control inputs using neural networks. , 2021, , .		5
31	The method of controlled Lagrangians: Energy plus force shaping. , 2009, , .		4
32	Semiglobal Nonmemoryless Attitude Controls on the Special Orthogonal Group. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019, 141, .	1.6	4
33	Dynamic one-shot target detection and classification using a pseudo-Siamese network and its application to Raman spectroscopy. <i>Analyst, The</i> , 2021, 146, 6997-7004.	3.5	4
34	Learning-Driven Exploration for Reinforcement Learning. , 2021, , .		4
35	Image Processing Based Autonomous Guidewire Navigation in Percutaneous Coronary Intervention. , 2021, , .		4
36	Controller design for systems on manifolds in Euclidean space. , 2017, , .		3

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37	Attitude Observer on $SO(3)$ with Time-Varying Reference Directions. , 2019, , .		3
38	The Adaptive Dynamic Programming Toolbox. Sensors, 2021, 21, 5609.	3.8	3
39	An Effective Baseline Correction Algorithm Using Broad Gaussian Vectors for Chemical Agent Detection with Known Raman Signature Spectra. Sensors, 2021, 21, 8260.	3.8	3
40	Stabilization of the lateral dynamics of a roll-to-roll WEB system. , 2011, , .		2
41	On the Self-Recovery Phenomenon for a Cylindrical Rigid Body Rotating in an Incompressible Viscous Fluid. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	2
42	Robust Beamforming and Time Allocation for Full-Duplex Wireless-Powered Communication Networks. IEEE Communications Letters, 2019, 23, 1665-1669.	4.1	2
43	A Dual Memory Structure for Efficient Use of Replay Memory in Deep Reinforcement Learning. , 2019, , .		2
44	Tracking Controller Design for Satellite Attitude Under Unknown Constant Disturbance Using Stable Embedding. Journal of Electrical Engineering and Technology, 2021, 16, 1089-1097.	2.0	2
45	Transversely Stable Extended Kalman Filters for Systems on Manifolds in Euclidean Spaces. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	1.6	2
46	Model Predictive Regulation on Manifolds in Euclidean Space. Sensors, 2022, 22, 5170.	3.8	2
47	Time-optimal control of a 3-level quantum system and its generalization to an n-level system. Proceedings of the American Control Conference, 2007, , .	0.0	1
48	Characterizing the reachable set for a spacecraft with two rotors. , 2012, , .		1
49	Border screening vs. community level disease control for infectious diseases: Timing and effectiveness. AIP Conference Proceedings, 2017, , .	0.4	1
50	Design of a Hard Expectation-Maximization-Based Normalized Matched Filter (EM-NMF) for the Detection of Chemical Warfare Agents Under Background Contamination. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2940-2952.	4.9	1
51	Design of cooperative matched filter for detection of chemical agents. Electronics Letters, 2021, 57, 216-218.	1.0	1
52	Constrained Control for Systems on Lie Groups with Uncertainties via Tube-Based Model Predictive Control on Euclidean Spaces. Communications in Computer and Information Science, 2022, , 156-173.	0.5	1
53	Quasi-linearizability of various benchmark control mechanical systems. , 2015, , .		0
54	Observer-Based Controller Design for Systems on Manifolds in Euclidean Space. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Robotic Navigation using Entropy-Based Exploration. , 2019, , .		0
56	Design of a Cooperative Chemical Agent (CA) Detection Algorithm with the Hyperspectral Imaging System. , 2021, , .		0
57	Image-Based Visual Servoing with Backstepping for the Drone. , 2021, , .		0
58	Real time pose detection of animals using HRNet. , 2021, , .		0