

Dong Eui Chang

List of Publications by Year in descending order

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58
papers

405
citations

1040056

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docs citations

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times ranked

356
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Model Predictive Regulation on Manifolds in Euclidean Space. Sensors, 2022, 22, 5170.	3.8	2
3	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
4	Globally Exponentially Convergent Continuous Observers for Velocity Bias and State for Invariant Kinematic Systems on Matrix Lie Groups. IEEE Transactions on Automatic Control, 2021, 66, 3363-3369.	5.7	5
5	Dynamic one-shot target detection and classification using a pseudo-Siamese network and its application to Raman spectroscopy. Analyst, The, 2021, 146, 6997-7004.	3.5	4
6	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
7	The Adaptive Dynamic Programming Toolbox. Sensors, 2021, 21, 5609.	3.8	3
8	Design of cooperative matched filter for detection of chemical agents. Electronics Letters, 2021, 57, 216-218.	1.0	1
9	Robust Navigation for Racing Drones based on Imitation Learning and Modularization. , 2021, , .		7
10	Multipath Lightweight Deep Network Using Randomly Selected Dilated Convolution. Sensors, 2021, 21, 7862.	3.8	5
11	Design of a Cooperative Chemical Agent (CA) Detection Algorithm with the Hyperspectral Imaging System. , 2021, , .		0
12	Data-driven fault detection and isolation of system with only state measurements and control inputs using neural networks. , 2021, , .		5
13	Autonomous Driving Based on Modified SAC Algorithm through Imitation Learning Pretraining. , 2021, , .		9
14	Learning-Driven Exploration for Reinforcement Learning. , 2021, , .		4
15	Image-Based Visual Servoing with Backstepping for the Drone. , 2021, , .		0
16	Real time pose detection of animals using HRNet. , 2021, , .		0
17	Image Processing Based Autonomous Guidewire Navigation in Percutaneous Coronary Intervention. , 2021, , .		4
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Discrete-time invariant extended Kalman filter on matrix Lie groups. International Journal of Robust and Nonlinear Control, 2020, 30, 4449-4462.	3.7	8
21	Invariant extended Kalman filter on matrix Lie groups. Automatica, 2020, 114, 108812.	5.0	18
22	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
23	Real-time quadrotor actuator fault detection and isolation using multivariate statistical analysis techniques with sensor measurements. , 2020, , .		5
24	Robust Beamforming and Time Allocation for Full-Duplex Wireless-Powered Communication Networks. IEEE Communications Letters, 2019, 23, 1665-1669.	4.1	2
25	Feedback Integrators for Nonholonomic Mechanical Systems. Journal of Nonlinear Science, 2019, 29, 1165-1204.	2.1	5
26	A Dual Memory Structure for Efficient Use of Replay Memory in Deep Reinforcement Learning. , 2019, , .		2
27	Attitude Observer on $SO(3)$ with Time-Varying Reference Directions. , 2019, , .		3
28	Passivity-based Adaptive Control of Quadrotors with Mass and Moment of Inertia Uncertainties. , 2019, , .		6
29	Improved Reinforcement Learning through Imitation Learning Pretraining Towards Image-based Autonomous Driving. , 2019, , .		12
30	Deep Reinforcement Learning Based Robot Arm Manipulation with Efficient Training Data through Simulation. , 2019, , .		5
31	Semiglobal Nonmemoryless Attitude Controls on the Special Orthogonal Group. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	4
32	Robotic Navigation using Entropy-Based Exploration. , 2019, , .		0
33	On controller design for systems on manifolds in Euclidean space. International Journal of Robust and Nonlinear Control, 2018, 28, 4981-4998.	3.7	16
34	Observer-Based Controller Design for Systems on Manifolds in Euclidean Space. , 2018, , .		0
35	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
36	Attitude control strategies overcoming the topological obstruction on $SO(3)$. , 2017, , .		7

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37	Controller design for systems on manifolds in Euclidean space. , 2017, , .		3
38	Border screening vs. community level disease control for infectious diseases: Timing and effectiveness. AIP Conference Proceedings, 2017, , .	0.4	1
39	Feedback Integrators. Journal of Nonlinear Science, 2016, 26, 1693-1721.	2.1	13
40	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
41	Quasi-linearizability of various benchmark control mechanical systems. , 2015, , .		0
42	Humidity Sensor Based on PEDOT:PSS and Zinc Stannate Nano-composite. Journal of Electronic Materials, 2015, 44, 3992-3999.	2.2	37
43	Construction of an atlas for global flatness-based parameterization and dynamic feedback linearization of quadcopter dynamics. , 2014, , .		5
44	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
45	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
46	On the Damping-Induced Self-Recovery Phenomenon in Mechanical Systems with Several Unactuated Cyclic Variables. Journal of Nonlinear Science, 2013, 23, 1023-1038.	2.1	6
47	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
48	Characterizing the reachable set for a spacecraft with two rotors. Systems and Control Letters, 2013, 62, 453-460.	2.3	6
49	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
50	Damping-Induced Self Recovery Phenomenon in Mechanical Systems With an Unactuated Cyclic Variable. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	5
51	Characterizing the reachable set for a spacecraft with two rotors. , 2012, , .		1
52	Time optimal control of a dielectrophoretic system. Asian Journal of Control, 2011, 13, 480-491.	3.0	5
53	A simple proof of the Pontryagin maximum principle on manifolds. Automatica, 2011, 47, 630-633.	5.0	18
54	Stabilization of the lateral dynamics of a roll-to-roll WEB system. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
55	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
56	The method of controlled Lagrangians: Energy plus force shaping. , 2009, , .		4
57	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
58	Experiments of trajectory generation and obstacle avoidance for a UGV. Proceedings of the American Control Conference, 2007, , .	0.0	7