David Naso

List of Publications by Year in descending order

73 papers	2,486 citations	236612 25 h-index	264894 42 g-index
73 all docs	73 docs citations	73 times ranked	2324 citing authors

#	Article	IF	Citations
1	Data-Driven Sparsity-Promoting Optimal Control of Power Buffers in DC Microgrids. IEEE Transactions on Energy Conversion, 2021, 36, 1919-1930.	3.7	11
2	Towards Sensorless Soft Robotics: Self-Sensing Stiffness Control of Dielectric Elastomer Actuators. IEEE Transactions on Robotics, 2020, 36, 174-188.	7.3	26
3	Data-Driven Optimal Structured Control for Unknown Symmetric Systems. , 2020, , .		2
4	Assistive Power Buffer Control via Adaptive Dynamic Programming. IEEE Transactions on Energy Conversion, 2020, 35, 1534-1546.	3.7	15
5	Fuzzy Adaptive Dynamic Programming Minimum Energy Control Of Dielectric Elastomer Actuators. , 2019, , .		7
6	A Review on Model Predictive Control and its Applications in Power Electronics. , 2019, , .		27
7	Hysteresis modeling in thermal shape memory alloy wire actuators: an irreversible port-Hamiltonian approach. , 2019, , .		5
8	An Improved IDIM Technique for Sensorless Control of Single-Phase Electromagnetic Drives. , 2019, , .		2
9	Modeling and Design Optimization of a Rotational Soft Robotic System Driven by Double Cone Dielectric Elastomer Actuators. Frontiers in Robotics and AI, 2019, 6, 150.	2.0	13
10	Simultaneous Self-Sensing of Displacement and Force for Soft Dielectric Elastomer Actuators. IEEE Robotics and Automation Letters, 2018, 3, 1230-1236.	3.3	25
11	Robust Control of Systems with Output Hysteresis and Input Saturation Using a Finite Time Stability Approach. , 2018, , .		2
12	Position Control of Dielectric Elastomer Actuators Based on Port-Hamiltonian Framework. , 2018, , .		2
13	Simulation Analysis and Performance Evaluation of a Vibratory Feeder Actuated by Dielectric Elastomers. , 2018, , .		5
14	Analytical Modeling of Clamped Dielectric Elastomer Strip Membranes Exhibiting Necking Effect. IFAC-PapersOnLine, 2018, 51, 701-706.	0.5	2
15	Modeling and simulation of a valve system actuated by polycrystalline shape memory alloy wires. , 2018, , .		2
16	Robust Interaction Control of a Dielectric Elastomer Actuator With Variable Stiffness. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1705-1716.	3.7	15
17	A Self-Sensing Approach for Dielectric Elastomer Actuators Based on Online Estimation Algorithms. IEEE/ASME Transactions on Mechatronics, 2017, 22, 728-738.	3.7	53
18	An overview on innovative mechatronic actuators based on smart materials. , 2017, , .		2

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19	Self-sensing at low sampling-to-signal frequency ratio: An improved algorithm for dielectric elastomer actuators. , 2016, , .		3
20	Robust Control of High-Speed Synchronous Reluctance Machines. IEEE Transactions on Industry Applications, 2016, 52, 3990-4000.	3.3	16
21	Design, modelling and control of a micro-positioning actuator based on magnetic shape memory alloys. Smart Materials and Structures, 2016, 25, 075005.	1.8	23
22	Discrete-Time Control of High-Speed Salient Machines. IEEE Transactions on Industry Applications, 2016, 52, 293-301.	3.3	47
23	Robust Position Control of Dielectric Elastomer Actuators Based on LMI Optimization. IEEE Transactions on Control Systems Technology, 2016, 24, 1909-1921.	3.2	55
24	Clinical decision support system for end-stage kidney disease risk estimation in IgA nephropathy patients. Nephrology Dialysis Transplantation, 2016, 31, 80-86.	0.4	38
25	Robust current control of electrical machines considering saturation effects at high speed regimes. , 2015, , .		3
26	Robust control of high-speed synchronous reluctance machines. , 2015, , .		0
27	Modeling, Identification, and Control of a Dielectric Electro-Active Polymer Positioning System. IEEE Transactions on Control Systems Technology, 2015, 23, 632-643.	3.2	102
28	Comparison of Model-free and Model-based Control Techniques for a Positioning Actuator based on Magnetic Shape Memory Alloys. , 2015, , .		3
29	Self-sensing in dielectric electro-active polymer actuator using linear-in-parametes online estimation. , 2015, , .		9
30	Scalable Real-Time Electric Vehicles Charging With Discrete Charging Rates. IEEE Transactions on Smart Grid, 2015, 6, 2211-2220.	6.2	69
31	LMI-based design of PI controllers for micropositioning dielectric electro-active polymer membranes. , 2015, , .		4
32	Genetic algorithm based on the Lagrange method for the non-convex Economic Dispatch Problem. , 2015, , .		3
33	Decentralized dynamic task planning for heterogeneous robotic networks. Autonomous Robots, 2015, 38, 31-48.	3.2	14
34	Discrete-time control of high speed salient machines. , 2014, , .		9
35	A Distributed Auction-Based Algorithm for the Nonconvex Economic Dispatch Problem. IEEE Transactions on Industrial Informatics, 2014, 10, 1124-1132.	7.2	159
36	Design of Linear Feedback Controllers for Dynamic Systems With Hysteresis. IEEE Transactions on Control Systems Technology, 2014, 22, 1268-1280.	3.2	43

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37	Distributed Consensus-Based Economic Dispatch With Transmission Losses. IEEE Transactions on Power Systems, 2014, 29, 1711-1720.	4.6	372
38	Consensus-based Approach for the Economic Dispatch Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3140-3145.	0.4	8
39	Decentralized task allocation for surveillance systems with critical tasks. Robotics and Autonomous Systems, 2013, 61, 1653-1664.	3.0	31
40	Adaptive Control of Positioning Systems With Hysteresis Based on Magnetic Shape Memory Alloys. IEEE Transactions on Control Systems Technology, 2013, 21, 2011-2023.	3.2	41
41	An end stage kidney disease predictor based on an artificial neural networks ensemble. Expert Systems With Applications, 2013, 40, 4438-4445.	4.4	60
42	Distributed solution for the economic dispatch problem. , 2013, , .		25
43	A decentralized allocation algorithm for distributed supply chains with critical tasks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 192-197.	0.4	1
44	Decentralized discrete-event modeling and control of task execution for robotic networks. , 2012, , .		2
45	Generating periodic forces with the pendulum actuator. JVC/Journal of Vibration and Control, 2012, 18, 3-16.	1.5	2
46	A precise positioning actuator based on feedback-controlled magnetic shape memory alloys. Mechatronics, 2012, 22, 568-576.	2.0	61
47	Decentralized task allocation for heterogeneous agent systems with constraints on agent capacity and critical tasks. , 2012, , .		7
48	MSM Actuators: Design Rules and Control Strategies. Advanced Engineering Materials, 2012, 14, 668-681.	1.6	34
49	Adaptive modified Prandtl-Ishlinskii model for compensation of hysteretic nonlinearities in magnetic shape memory actuators. , 2011, , .		5
50	Compact Differential Evolution. IEEE Transactions on Evolutionary Computation, 2011, 15, 32-54.	7.5	272
51	Consensus-based decentralized supervision of Petri nets. , 2011, , .		2
52	Decentralized task sequencing and multiple mission control for heterogeneous robotic networks. , 2011, , .		16
53	Consensus-based robust decentralized task assignment for heterogeneous robot networks. , 2011, , .		21
54	Robust adaptive control of a Magnetic Shape Memory actuator for precise positioning. , 2011, , .		7

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55	Multi-sensor surveillance of indoor environments by an autonomous mobile robot. International Journal of Intelligent Systems Technologies and Applications, 2010, 8, 18.	0.2	6
56	Precise position control of tubular linear motors with neural networks and composite learning. Control Engineering Practice, 2010, 18, 515-522.	3.2	56
57	An experimental comparison of adaptive and robust control methods for precise positioning with tubular linear motors. , 2010, , .		2
58	A heuristic approach to task assignment and control for robotic networks. , 2010, , .		2
59	Matrix-Based Discrete Event Control for Surveillance Mobile Robotics. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 56, 513-541.	2.0	8
60	Sliding-Mode Control With Double Boundary Layer for Robust Compensation of Payload Mass and Friction in Linear Motors. IEEE Transactions on Industry Applications, 2009, 45, 1688-1696.	3.3	65
61	A Pendulum Actuator and Its Force Generation Capabilities. , 2009, , .		2
62	Real-Valued Compact Genetic Algorithms for Embedded Microcontroller Optimization. IEEE Transactions on Evolutionary Computation, 2008, 12, 203-219.	7.5	122
63	Integrated Supervisory and Operational Control of a Warehouse With a Matrix-Based Approach. IEEE Transactions on Automation Science and Engineering, 2008, 5, 53-70.	3.4	33
64	A Bi-Objective Evolutionary Approach to Robust Scheduling. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	2
65	Reactive Scheduling of a Distributed Network for the Supply of Perishable Products. IEEE Transactions on Automation Science and Engineering, 2007, 4, 407-423.	3.4	20
66	Genetic algorithms for supply-chain scheduling: A case study in the distribution of ready-mixed concrete. European Journal of Operational Research, 2007, 177, 2069-2099.	3.5	168
67	Fuzzy control of a mobile robot. IEEE Robotics and Automation Magazine, 2006, 13, 74-81.	2.2	73
68	USING A DISCRETE-EVENT SYSTEM FORMALISM FOR THE MULTI-AGENT CONTROL OF MANUFACTURING SYSTEMS. , 2006, , 125-132.		3
69	Multicriteria Meta-Heuristics for AGV Dispatching Control Based on Computational Intelligence. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 208-226.	5.5	47
70	A coordination strategy for distributed multi-agent manufacturing systems. International Journal of Production Research, 2004, 42, 2497-2520.	4.9	15
71	A soft computing approach for task contracting in multi-agent manufacturing control. Computers in Industry, 2003, 52, 199-219.	5.7	39
72	A Discrete-Event Formalism to Model Adaptive Multi-Agent Manufacturing Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 89-95.	0.4	0

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73	Evolutionary adaptation of dispatching agents in heterarchical manufacturing systems. International Journal of Production Research, 2001, 39, 1481-1503.	4.9	40