

Davide Spinello

List of Publications by Year in descending order

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53
papers

1,582
citations

516561

16
h-index

414303

32
g-index

54
all docs

54
docs citations

54
times ranked

879
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of modeling electrostatically actuated microelectromechanical systems. Smart Materials and Structures, 2007, 16, R23-R31.	1.8	246
2	Vibrations of narrow microbeams predeformed by an electric field. Journal of Sound and Vibration, 2008, 309, 600-612.	2.1	202
3	Electromechanical Model of Electrically Actuated Narrow Microbeams. Journal of Microelectromechanical Systems, 2006, 15, 1175-1189.	1.7	177
4	Reduced-order models for microelectromechanical rectangular and circular plates incorporating the Casimir force. International Journal of Solids and Structures, 2008, 45, 3558-3583.	1.3	160
5	Effects of Casimir force on pull-in instability in micromembranes. Europhysics Letters, 2007, 77, 20010.	0.7	99
6	Effects of van der Waals Force and Thermal Stresses on Pull-in Instability of Clamped Rectangular Microplates. Sensors, 2008, 8, 1048-1069.	2.1	99
7	Vibrations and pull-in instabilities of microelectromechanical von Kármán elliptic plates incorporating the Casimir force. Journal of Sound and Vibration, 2008, 315, 939-960.	2.1	72
8	Information Flow in Animal-Robot Interactions. Entropy, 2014, 16, 1315-1330.	1.1	70
9	Nonlinear Estimation With State-Dependent Gaussian Observation Noise. IEEE Transactions on Automatic Control, 2010, 55, 1358-1366.	3.6	57
10	Capacitance estimate for electrostatically actuated narrow microbeams. Micro and Nano Letters, 2006, 1, 71.	0.6	55
11	Treatment of material discontinuity in two meshless local Petrov-Galerkin (MLPG) formulations of axisymmetric transient heat conduction. International Journal for Numerical Methods in Engineering, 2004, 61, 2461-2479.	1.5	47
12	Analysis of electrostatic MEMS using meshless local Petrov-Galerkin (MLPG) method. Engineering Analysis With Boundary Elements, 2006, 30, 949-962.	2.0	47
13	Nonuniform Coverage Control With Stochastic Intermittent Communication. IEEE Transactions on Automatic Control, 2015, 60, 1981-1986.	3.6	33
14	Generalized non-autonomous metric optimization for area coverage problems with mobile autonomous agents. Automatica, 2017, 80, 295-299.	3.0	32
15	Free and Forced Vibrations of a Segmented Bar by a Meshless Local Petrov-Galerkin (MLPG) Formulation. Computational Mechanics, 2007, 41, 473-491.	2.2	26
16	Nonuniform Deployment of Autonomous Agents in Harbor-Like Environments. Unmanned Systems, 2014, 02, 377-389.	2.7	18
17	Cooperative localization of an acoustic source using towed hydrophone arrays. , 2008, , .		17
18	Non-Autonomous Coverage Control With Diffusive Evolving Density. IEEE Transactions on Automatic Control, 2017, 62, 5262-5268.	3.6	15

#	ARTICLE	IF	CITATIONS
19	Distributed Full-State Observers With Limited Communication and Application to Cooperative Target Localization. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	13
20	Planar kinematics analysis of a snake-like robot. Robotica, 2014, 32, 659-675.	1.3	12
21	Guidance Mechanism for Flexible-Wing Aircraft Using Measurement-Interfaced Machine-Learning Platform. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4637-4648.	2.4	11
22	Determination of the modulation frequency for thermographic non-destructive testing. NDT and E International, 2015, 70, 1-8.	1.7	7
23	RÃ©nyi Entropy Filter for Anomaly Detection With Eddy Current Remote Field Sensors. IEEE Sensors Journal, 2015, 15, 6399-6408.	2.4	6
24	Analysis of adiabatic shear bands in heatâ€conducting elastothermoviscoplastic materials by the meshless local Bubnovâ€Galerkin method. Communications in Numerical Methods in Engineering, 2009, 25, 1019-1040.	1.3	5
25	A Timoshenko beam reduced order model for shape tracking with a slender mechanism. Journal of Sound and Vibration, 2014, 333, 5165-5180.	2.1	5
26	Asymptotic Agreement in a Class of Networked Kalman Filters With Intermittent Stochastic Communications. IEEE Transactions on Automatic Control, 2016, 61, 1093-1098.	3.6	5
27	Peristaltic Wave Locomotion and Shape Morphing with a Millipede Inspired System. Journal of Nonlinear Science, 2017, 27, 1093-1119.	1.0	5
28	Pull-In Instability in Electrostatically Actuated MEMS due to Coulomb and Casimir Forces. Computational and Experimental Methods in Structures, 2008, , 329-374.	0.2	4
29	Nonuniform Coverage With Time-Varying Diffusive Density. , 2014, , .		4
30	Dynamics and Control of a Planar Multibody Mobile Robot for Confined Environment Inspection. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	0.7	4
31	Online Multi-Objective Model-Independent Adaptive Tracking Mechanism for Dynamical Systems. Robotics, 2019, 8, 82.	2.1	4
32	An Adaptive Fuzzy Reinforcement Learning Cooperative Approach for the Autonomous Control of Flock Systems. , 2021, , .		4
33	Maritime air defence firing tactics. , 2014, , .		2
34	Path Following and Shape Morphing With a Continuous Slender Mechanism. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	2
35	Linear time-invariant feedback operator for mobile robot trajectory tracking. , 2015, , .		2
36	Non-autonomous State-Feedback to Stabilize the Error Dynamics in Time-Varying Area Coverage Control Problems. , 2019, , .		2

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37	<p>The Implication of Spatial Statistics in Human Mesenchymal Stem Cell Response to Nanotubular Architectures</p>. International Journal of Nanomedicine, 2020, Volume 15, 2151-2169.	3.3	2
38	Erratum for "Capacitance estimate for electrostatically actuated narrow microbeams". Micro and Nano Letters, 2007, 2, 118.	0.6	2
39	Cooperative Kalman Filtering With Data Fusion in Time Varying Communication Networks. , 2010, , .		1
40	Entropy filter for anomaly detection with eddy current remote field sensors. , 2011, , .		1
41	Analytical and simulation investigation of the experimental design for infrared non destructive testing. , 2011, , .		1
42	Timoshenko Beam Model for Exploration and Sensing With a Continuum Centipede Inspired Robot. , 2013, , .		1
43	Sensing linear viscoelastic constitutive parameters with a Timoshenko beam on a multi-layer foundation: Modeling and simulation. Sensing and Bio-Sensing Research, 2015, 4, 78-89.	2.2	1
44	On the implementation of area coverage optimization using mobile robots. , 2016, , .		1
45	Non-autonomous Area Coverage and Coordination of a Multi-agent System for Harbor Protection Applications. , 2018, , .		1
46	A Data-Driven Model-Reference Adaptive Control Approach Based on Reinforcement Learning. , 2021, , .		1
47	Trajectory Tracking of Underactuated Sea Vessels With Uncertain Dynamics: An Integral Reinforcement Learning Approach. , 2020, , .		1
48	Formation Control of Platoons of Mobile Sensors With Intermittent Communications. , 2011, , .		0
49	A Two-Phase Combined Gradient-Tunneling Based Algorithm for Constrained Integer Programming Problems. Journal of Information and Optimization Sciences, 2015, 36, 339-365.	0.2	0
50	Neighboring optimal control for mobile robot trajectory tracking with range-limited sensors. , 2015, , .		0
51	Non-Autonomous Feedback Control for Area Coverage Problems With Time-Varying Risk. , 2016, , .		0
52	Coordination in Coupled Arrays of Stiff Filaments"Modelling and Simulation. Mathematics, 2020, 8, 1282.	1.1	0
53	Eighty-Five Percent of Improved Optical Power Delivery to Epiretinal Prostheses Using Rigid Body Compensation Algorithm. Journal of Biomechanical Engineering, 2021, 143, .	0.6	0