

Stefano Stramigioli

List of Publications by Year in descending order

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Version: 2024-02-01

217
papers

5,651
citations

172386

29
h-index

110317

64
g-index

225
all docs

225
docs citations

225
times ranked

4018
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Resonance Pneumatic Stepper Motor With Multiple Concentric Shafts Output. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2379-2389.	3.7	3
2	A geometric formulation of multirotor aerial vehicle dynamics. Nonlinear Dynamics, 2022, 107, 495-513.	2.7	3
3	Shaping Impedances to Comply With Constrained Task Dynamics. IEEE Transactions on Robotics, 2022, 38, 2750-2767.	7.3	8
4	Partnership on AI, data, and robotics. Communications of the ACM, 2022, 65, 54-55.	3.3	1
5	Energetic decomposition of distributed systems with moving material domains: The port-Hamiltonian model of fluid-structure interaction. Journal of Geometry and Physics, 2022, 175, 104477.	0.7	4
6	Development and experimental validation of lifting line-based model for a Robotic Falcon. , 2022, , .		2
7	Mechanical Interlocking for Connecting Electrical Wires to Flexible, FDM, 3D-Printed Conductors. , 2022, , .		3
8	Energy Aware Impedance Control of a Flying End-Effector in the Port-Hamiltonian Framework. IEEE Transactions on Robotics, 2022, 38, 3936-3955.	7.3	11
9	3-D Ultrasound Elastography Reconstruction Using Acoustically Transparent Pressure Sensor on Robotic Arm. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 265-268.	2.1	5
10	A Review of Extrusion-Based 3D Printing for the Fabrication of Electro- and Biomechanical Sensors. IEEE Sensors Journal, 2021, 21, 12900-12912.	2.4	49
11	Decoding and realising flapping flight with port-Hamiltonian system theory. Annual Reviews in Control, 2021, 51, 37-46.	4.4	7
12	Digital Innovation Hubs in Health-Care Robotics Fighting COVID-19: Novel Support for Patients and Health-Care Workers Across Europe. IEEE Robotics and Automation Magazine, 2021, 28, 40-47.	2.2	14
13	Quantitative Evaluation of an Automated Cone-Based Breast Ultrasound Scanner for MRI-3D US Image Fusion. IEEE Transactions on Medical Imaging, 2021, 40, 1229-1239.	5.4	23
14	Strict Nonlinear Normal Modes of Systems Characterized by Scalar Functions on Riemannian Manifolds. IEEE Robotics and Automation Letters, 2021, 6, 1910-1917.	3.3	7
15	Geometric and energy-aware decomposition of the Navier-Stokes equations: A port-Hamiltonian approach. Physics of Fluids, 2021, 33, .	1.6	14
16	Energy budgets for coordinate invariant robot control in physical human-robot interaction. International Journal of Robotics Research, 2021, 40, 968-985.	5.8	11
17	Modelling of Anisotropic Electrical Conduction in Layered Structures 3D-Printed with Fused Deposition Modelling. Sensors, 2021, 21, 3710.	2.1	20
18	Port-Hamiltonian modeling of ideal fluid flow: Part I. Foundations and kinetic energy. Journal of Geometry and Physics, 2021, 164, 104201.	0.7	12

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19	First results of a Soft, 3D-Printed, Resistive Cantilever Flow Sensor. , 2021, , .		2
20	Port-Hamiltonian modeling of ideal fluid flow: Part II. Compressible and incompressible flow. Journal of Geometry and Physics, 2021, 164, 104199.	0.7	11
21	Observer-based Geometric Impedance Control of a Fully-Actuated Hexarotor for Physical Sliding Interaction with Unknown Generic Surfaces. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	4
22	Multi-Axis Electric Stepper Motor. IEEE Robotics and Automation Letters, 2021, 6, 7201-7208.	3.3	6
23	Needle and Biopsy Robots: a Review. Current Robotics Reports, 2021, 2, 73-84.	5.1	20
24	Mixed finite elements for port-Hamiltonian models of von Kármán beams. IFAC-PapersOnLine, 2021, 54, 186-191.	0.5	1
25	Exterior and vector calculus views of incompressible Navier-Stokes port-Hamiltonian models. IFAC-PapersOnLine, 2021, 54, 173-179.	0.5	2
26	Design of galloping robots with elastic spine: tracking relations between dynamic model parameters based on motion analysis of a real cheetah. , 2021, , .		2
27	Low Dimensional State Representation Learning with Robotics Priors in Continuous Action Spaces. , 2021, , .		2
28	Multi-Stage Energy-Aware Motion Control with Exteroception-Defined Dynamic Safety Metric. , 2021, , .		1
29	Computational Design of Reconfigurable Underactuated Linkages for Adaptive Grippers. , 2021, , .		5
30	DC Electric Metamaterial Behaviour in Tuned Fused Deposition Modelling Prints. , 2021, , .		1
31	Image-guided Breast Biopsy of MRI-visible Lesions with a Hand-mounted Motorised Needle Steering Tool. , 2021, , .		1
32	Energy-aware adaptive impedance control using offline task-based optimization. , 2021, , .		5
33	Sunram 5: A Magnetic Resonance-Safe Robotic System for Breast Biopsy, Driven by Pneumatic Stepper Motors. , 2020, , 375-396.		6
34	The influence of coordinates in robotic manipulability analysis. Mechanism and Machine Theory, 2020, 146, 103722.	2.7	17
35	Twenty years of distributed port-Hamiltonian systems: a literature review. IMA Journal of Mathematical Control and Information, 2020, 37, 1400-1422.	1.1	50
36	Characterizing the Electrical Properties of Anisotropic, 3D-Printed Conductive Sheets for Sensor Applications. IEEE Sensors Journal, 2020, 20, 14218-14227.	2.4	17

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37	Energy-based Safety in Series Elastic Actuation. , 2020, , .		2
38	Quantitative Evaluation of Automated Robot-Assisted Volumetric Breast Ultrasound. , 2020, , .		0
39	3D-Printing of a Lemon Battery via Fused Deposition Modelling and Electrodeposition. , 2020, , .		0
40	Fully Actuated Multirotor UAVs: A Literature Review. IEEE Robotics and Automation Magazine, 2020, 27, 97-107.	2.2	60
41	Design of an end-effector for robot-assisted ultrasound-guided breast biopsies. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 681-690.	1.7	24
42	Production and clinical evaluation of breast lesion skin markers for automated three-dimensional ultrasonography of the breast: a pilot study. European Radiology, 2020, 30, 3356-3362.	2.3	0
43	Forging global cooperation and collaboration. Science Robotics, 2020, 5, .	9.9	2
44	Cascaded Constrained Optimization For Cheetah-Inspired Galloping Robot Leg Mechanism. IFAC-PapersOnLine, 2020, 53, 9232-9237.	0.5	2
45	Towards Vision-Based Impedance Control for the Contact Inspection of Unknown Generically-Shaped Surfaces with a Fully-Actuated UAV. , 2020, , .		8
46	Geometrical Interpretation and Detection of Multiple Task Conflicts using a Coordinate Invariant Index. , 2020, , .		4
47	An Energy-based Approach for the Integration of Collaborative Redundant Robots in Restricted Work Environments. , 2020, , .		6
48	Energy Tank-Based Wrench/Impedance Control of a Fully-Actuated Hexarotor: A Geometric Port-Hamiltonian Approach. , 2019, , .		29
49	Port-Hamiltonian Passivity-Based Control on SE(3) of a Fully Actuated UAV for Aerial Physical Interaction Near-Hovering. IEEE Robotics and Automation Letters, 2019, 4, 4378-4385.	3.3	31
50	A review on recent advances in soft surgical robots for endoscopic applications. International Journal of Medical Robotics and Computer Assisted Surgery, 2019, 15, e2010.	1.2	82
51	Miniaturization of MR Safe Pneumatic Rotational Stepper Motors. , 2019, , .		5
52	Toward a Versatile Robotic Platform for Fluoroscopy and MRI-Guided Endovascular Interventions: A Pre-Clinical Study. , 2019, , .		26
53	Study on Elastic Elements Allocation for Energy-Efficient Robotic Cheetah Leg. , 2019, , .		6
54	Iterative simulations to estimate the elastic properties from a series of MRI images followed by MRI-US validation. Medical and Biological Engineering and Computing, 2019, 57, 913-924.	1.6	7

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55	Development of a Safety- and Energy-Aware Impedance Controller for Collaborative Robots. IEEE Robotics and Automation Letters, 2018, 3, 1237-1244.	3.3	70
56	A Flexible Endoscopic Sensing Module for Force Haptic Feedback Integration. , 2018, , .		3
57	An Overview on Principles for Energy Efficient Robot Locomotion. Frontiers in Robotics and AI, 2018, 5, 129.	2.0	60
58	Conceptual Design of a Fully Passive Transfemoral Prosthesis to Facilitate Energy-Efficient Gait. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2360-2366.	2.7	3
59	The Rise of the Robots: The European Robotics Flagship [Regional Spotlight]. IEEE Robotics and Automation Magazine, 2018, 25, 121-122.	2.2	1
60	Multimodal Aerial Locomotion: An Approach to Active Tool Handling. IEEE Robotics and Automation Magazine, 2018, 25, 57-65.	2.2	16
61	Autonomous Battery Exchange of UAVs with a Mobile Ground Base. , 2018, , .		18
62	Safety and Guaranteed Stability Through Embedded Energy-Aware Actuators. , 2018, , .		6
63	A General Approach to Achieving Stability and Safe Behavior in Distributed Robotic Architectures. Frontiers in Robotics and AI, 2018, 5, 108.	2.0	8
64	Intuitive Impedance Modulation in Haptic Control Using Electromyography. , 2018, , .		2
65	Rapid Prototyping High-Performance MR Safe Pneumatic Stepper Motors. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1843-1853.	3.7	23
66	Stormram 4: An MR Safe Robotic System for Breast Biopsy. Annals of Biomedical Engineering, 2018, 46, 1686-1696.	1.3	28
67	Visualization of Hydraulic Cylinder Dynamics by a Structure Preserving Nondimensionalization. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2196-2206.	3.7	17
68	Analytical derivation of elasticity in breast phantoms for deformation tracking. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1641-1650.	1.7	5
69	Kinematic Design Method for Rail-Guided Robotic Arms. Journal of Mechanisms and Robotics, 2017, 9, .	1.5	2
70	Modeling Robotic Manipulators Powered by Variable Stiffness Actuators: A Graph-Theoretic and Port-Hamiltonian Formalism. IEEE Transactions on Robotics, 2017, 33, 807-818.	7.3	11
71	Stormram 3: A Magnetic Resonance Imaging-Compatible Robotic System for Breast Biopsy. IEEE Robotics and Automation Magazine, 2017, 24, 34-41.	2.2	22
72	Robird: A Robotic Bird of Prey. IEEE Robotics and Automation Magazine, 2017, 24, 22-29.	2.2	53

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73	Passive Hierarchical Impedance Control Via Energy Tanks. IEEE Robotics and Automation Letters, 2017, 2, 522-529.	3.3	32
74	Controlling the Stormram 2: An MRI-compatible robotic system for breast biopsy. , 2017, , .		9
75	Highlights in Mechatronic Design Approaches. Microsystems and Nanosystems, 2017, , 41-59.	0.1	0
76	Positioning of drug carriers using permanent magnet-based robotic system in three-dimensional space. , 2017, , .		4
77	MRI and stereo vision surface reconstruction and fusion. , 2017, , .		3
78	Design and characterization of Stormram 4: An MRI-compatible robotic system for breast biopsy. , 2017, , .		11
79	Energy in Robotics. Foundations and Trends in Robotics, 2017, 6, 140-210.	5.0	19
80	Power Split Based Dual Hemispherical Continuously Variable Transmission. Actuators, 2017, 6, 15.	1.2	4
81	Telerobotics. Springer Handbooks, 2016, , 1085-1108.	0.3	80
82	Motor-gearbox selection for energy efficiency. , 2016, , .		5
83	Variable Stiffness Actuators: Review on Design and Components. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2418-2430.	3.7	293
84	Passivation of Projection-Based Null Space Compliance Control Via Energy Tanks. IEEE Robotics and Automation Letters, 2016, 1, 184-191.	3.3	28
85	Laser-Cutting Pneumatics. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1604-1611.	3.7	17
86	Morphological computation in a fast-running quadruped with elastic spine. IFAC-PapersOnLine, 2015, 48, 170-175.	0.5	9
87	Bilateral human-robot control for semi-autonomous UAV navigation. , 2015, , .		2
88	Clinical Pedicle Screw Accuracy and Deviation From Planning in Robot-Guided Spine Surgery. Spine, 2015, 40, E986-E991.	1.0	134
89	A novel concept for a translational continuously variable transmission. , 2015, , .		0
90	Wireless motion control of paramagnetic microparticles using a magnetic-based robotic system with an open-configuration. , 2015, , .		4

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91	Design and analysis of an optimal hopper for use in resonance-based locomotion. , 2015, , .		4
92	Inertia-Driven Controlled Passive Actuation. , 2015, , .		4
93	Variable stiffness actuators: The user's point of view. International Journal of Robotics Research, 2015, 34, 727-743.	5.8	160
94	A clutch mechanism for switching between position and stiffness control of a variable stiffness actuator. , 2015, , .		7
95	Energy-Aware Robotics. Lecture Notes in Control and Information Sciences, 2015, , 37-50.	0.6	37
96	A Novel Variable Stiffness Mechanism Capable of an Infinite Stiffness Range and Unlimited Decoupled Output Motion. Actuators, 2014, 3, 107-123.	1.2	77
97	Variable impedance control for aerial interaction. , 2014, , .		19
98	On Bilateral Teleoperation of Aerial Robots. IEEE Transactions on Robotics, 2014, 30, 258-274.	7.3	32
99	Design of a robot for in-pipe inspection using omnidirectional wheels and active stabilization. , 2014, , .		34
100	Single-handed controller reduces the workload of flexible endoscopy. Journal of Robotic Surgery, 2014, 8, 319-324.	1.0	3
101	Exploiting the dynamics of a robotic manipulator for control of UAVs. , 2014, , .		17
102	Combining energy and power based safety metrics in controller design for domestic robots. , 2014, , .		24
103	The Safety of Domestic Robotics: A Survey of Various Safety-Related Publications. IEEE Robotics and Automation Magazine, 2014, 21, 134-142.	2.2	76
104	Power-continuous synchronisation of oscillators: A novel, energy-free way to synchronise dynamical systems. , 2014, , .		2
105	Developing an Aerial Manipulator Prototype: Physical Interaction with the Environment. IEEE Robotics and Automation Magazine, 2014, 21, 41-50.	2.2	129
106	The Variable Stiffness Actuator vsaUT-II: Mechanical Design, Modeling, and Identification. IEEE/ASME Transactions on Mechatronics, 2014, 19, 589-597.	3.7	120
107	UT hand I: A lock-based underactuated hand prosthesis. Mechanism and Machine Theory, 2014, 78, 307-323.	2.7	18
108	Variable impedance actuators: A review. Robotics and Autonomous Systems, 2013, 61, 1601-1614.	3.0	822

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109	3D position estimation of flexible instruments: marker-less and marker-based methods. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 407-417.	1.7	24
110	Robot Vision: Obstacle-Avoidance Techniques for Unmanned Aerial Vehicles. IEEE Robotics and Automation Magazine, 2013, 20, 22-31.	2.2	34
111	Variable stiffness actuated prosthetic knee to restore knee buckling during stance: A modeling study. Medical Engineering and Physics, 2013, 35, 838-845.	0.8	14
112	Image-based hysteresis reduction for the control of flexible endoscopic instruments. Mechatronics, 2013, 23, 652-658.	2.0	23
113	Lending a helping hand: toward novel assistive robotic arms. IEEE Robotics and Automation Magazine, 2013, 20, 20-29.	2.2	33
114	Evaluation of robotically controlled advanced endoscopic instruments. International Journal of Medical Robotics and Computer Assisted Surgery, 2013, 9, 240-246.	1.2	9
115	PID motion control tuning rules in a damping injection framework. , 2013, , .		3
116	Interaction control of an UAV endowed with a manipulator. , 2013, , .		67
117	Intercontinental haptic teleoperation of a flying vehicle: A step towards real-time applications. , 2013, , .		11
118	Development of Underactuated Prosthetic Fingers with Joint Locking and Electromyographic Control. Mechanical Engineering Research, 2013, 3, 130.	0.2	7
119	Parallel stiffness in a bounding quadruped with flexible spine. , 2012, , .		54
120	A contribution to haptic teleoperation of aerial vehicles. , 2012, , .		4
121	Kinetic scrolling-based position mapping for haptic teleoperation of unmanned aerial vehicles. , 2012, , .		16
122	Bilateral teleoperation of underactuated unmanned aerial vehicles: The virtual slave concept. , 2012, , .		18
123	Design of joint locks for underactuated fingers. , 2012, , .		2
124	Casimir based impedance control. , 2012, , .		5
125	Evaluation of pneumatic cylinder actuators for hand prostheses. , 2012, , .		6
126	A port-Hamiltonian approach to image-based visual servo control for dynamic systems. International Journal of Robotics Research, 2012, 31, 1303-1319.	5.8	13

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127	Stability of position-based bilateral telemanipulation systems by damping injection. , 2012, , .		5
128	Image-based pose estimation of an endoscopic instrument. , 2012, , .		1
129	Variable Stiffness Actuators: A Port-Based Power-Flow Analysis. IEEE Transactions on Robotics, 2012, 28, 1-11.	7.3	52
130	Development of prosthesis grasp control systems on a robotic testbed. , 2012, , .		3
131	Pose reconstruction of flexible instruments from endoscopic images using markers. , 2012, , .		15
132	Corrections to "Singularity-Free Dynamic Equations of Open-Chain Mechanisms With General Holonomic and Nonholonomic Joints" IEEE Transactions on Robotics, 2012, 28, 1431-1432.	7.3	6
133	Switching-based mapping and control for haptic teleoperation of aerial robots. , 2012, , .		9
134	The mVSA-UT: A miniaturized differential mechanism for a continuous rotational variable stiffness actuator. , 2012, , .		30
135	Improved transparency in energy-based bilateral telemanipulation. Mechatronics, 2012, 22, 45-54.	2.0	2
136	Propose an RAS Summer School [Education]. IEEE Robotics and Automation Magazine, 2012, 19, 104-107.	2.2	0
137	Autonomous Exploration Using Kinect and Laser Range Finder. Lecture Notes in Computer Science, 2012, , 420-421.	1.0	1
138	Geometric interpretation of the Zero-Moment Point. , 2011, , .		2
139	Bilateral telemanipulation: Improving the complementarity of the frequency- and time-domain passivity approaches. , 2011, , .		8
140	An energy efficient knee locking mechanism for a dynamically walking robot. , 2011, , .		19
141	Bilateral Telemanipulation With Time Delays: A Two-Layer Approach Combining Passivity and Transparency. IEEE Transactions on Robotics, 2011, 27, 741-756.	7.3	223
142	Energy-Efficient Variable Stiffness Actuators. IEEE Transactions on Robotics, 2011, 27, 865-875.	7.3	200
143	Embodying Desired Behavior in Variable Stiffness Actuators*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9733-9738.	0.4	12
144	Performance comparison of a planar bipedal robot with rigid and compliant legs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6924-6929.	0.4	2

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145	New Ankle Actuation Mechanism for a Humanoid Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8082-8088.	0.4	3
146	Future RAS Support for Summer Schools [Education]. IEEE Robotics and Automation Magazine, 2011, 18, 20-20.	2.2	0
147	Mechatronic design of the Twente humanoid head. Intelligent Service Robotics, 2011, 4, 107-118.	1.6	16
148	Evaluation of flexible endoscope steering using haptic guidance. International Journal of Medical Robotics and Computer Assisted Surgery, 2011, 7, 178-186.	1.2	28
149	Three-dimensional pose reconstruction of flexible instruments from endoscopic images. , 2011, , .		12
150	Design of a user interface for intuitive colonoscope control. , 2011, , .		11
151	Port-based modeling and control of underactuated aerial vehicles. , 2011, , .		16
152	Vision based control of aerial robotic vehicles using the port Hamiltonian framework. , 2011, , .		13
153	A novel energy-efficient rotational variable stiffness actuator. , 2011, 2011, 8175-8.		0
154	Development of an inspection robot for small diameter gas distribution mains. , 2011, , .		59
155	Basic maneuvers for an inspection robot for small diameter gas distribution mains. , 2011, , .		7
156	Myoelectric forearm prostheses: State of the art from a user-centered perspective. Journal of Rehabilitation Research and Development, 2011, 48, 719.	1.6	378
157	Three-dimensional pose reconstruction of flexible instruments from endoscopic images. , 2011, , .		1
158	Energy Efficient Control of Robots with Variable Stiffness Actuators *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1199-1204.	0.4	8
159	Port-Hamiltonian analysis of a novel robotic finger concept for minimal actuation variable impedance grasping. , 2010, , .		20
160	A novel approach to haptic tele-operation of aerial robot vehicles. , 2010, , .		46
161	Friction compensation in energy-based bilateral telemanipulation. , 2010, , .		3
162	Multi-dimensional passive sampled Port-Hamiltonian systems. , 2010, , .		0

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163	A biomechanical model for the development of myoelectric hand prosthesis control systems. , 2010, 2010, 519-23.		8
164	Compliance analysis of an under-actuated robotic finger. , 2010, , .		2
165	Endoscopic camera control by head movements for thoracic surgery. , 2010, , .		25
166	Image-based flexible endoscope steering. , 2010, , .		26
167	Stiffness and position control of a prosthetic wrist by means of an EMG interface. , 2010, 2010, 495-8.		13
168	Compact analysis of 3D bipedal gait using geometric dynamics of simplified models. , 2009, , .		3
169	Internal dissipation in passive sampled haptic feedback systems. , 2009, , .		1
170	Digital elevation map reconstruction for port-based dynamic simulation of contacts on irregular surfaces. , 2009, , .		0
171	Port-Based Modeling and Simulation of Mechanical Systems With Rigid and Flexible Links. IEEE Transactions on Robotics, 2009, 25, 1016-1029.	7.3	32
172	Heading Toward an End [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2009, 16, 2-2.	2.2	0
173	Announcing the new EIC. IEEE Robotics and Automation Magazine, 2009, 16, 2-2.	2.2	0
174	An incredible experience [From the Editor's Desk. IEEE Robotics and Automation Magazine, 2009, 16, 2-2.	2.2	0
175	Modeling and Control of Complex Physical Systems. , 2009, , .		282
176	Port-Based Modeling in Different Domains. , 2009, , 131-209.		0
177	Last but not least [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2009, 16, 2-2.	2.2	0
178	Port-Based Modeling and Optimal Control for a new Very Versatile Energy Efficient Actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 493-498.	0.4	2
179	Passivity based force control of hydraulic robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 20-25.	0.4	6
180	Variable delay in scaled port-Hamiltonian telemanipulation. Mechatronics, 2008, 18, 357-363.	2.0	8

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181	Let Your Voice Be Heard [From The Editor's Desk]. IEEE Robotics and Automation Magazine, 2008, 15, 3-3.	2.2	0
182	The gurus behind RAS WWW [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2008, 15, 3-3.	2.2	0
183	Goodbye to another eventful year! [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2008, 15, 3-3.	2.2	1
184	A concept for a new Energy Efficient actuator. , 2008, , .		28
185	Transparency in Port-Hamiltonian-Based Telemanipulation. IEEE Transactions on Robotics, 2008, 24, 903-910.	7.3	15
186	Passivity based control of hydraulic robot arms using natural Casimir functions: Theory and experiments. , 2008, , .		7
187	Singularity-Free Dynamic Equations of Open-Chain Mechanisms With General Holonomic and Nonholonomic Joints. , 2008, 24, 517-526.		35
188	Evaluation of a Virtual Model Control for the selective support of gait functions using an exoskeleton. , 2007, , .		11
189	Towards a novel safety norm for domestic robotics. , 2007, , .		20
190	Port-Hamiltonian approaches to motion generation for mechanical systems. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	6
191	The Field and Service of Robotics[From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2007, 14, 2-2.	2.2	0
192	Using time-reversal symmetry for stabilizing a simple 3D walker model. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	2
193	PORT-BASED FINITE ELEMENT MODEL OF A FLEXIBLE LINK. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 158-163.	0.4	3
194	Port-Based Modeling of a Flexible Link. IEEE Transactions on Robotics, 2007, 23, 650-660.	7.3	26
195	Lagrangian dynamics of open multibody systems with generalized holonomic and nonholonomic joints. , 2007, , .		14
196	Discussion on: "On Preserving Passivity in Sampled-data Linear Systems". European Journal of Control, 2007, 13, 591-592.	1.6	0
197	On geometric dynamics of rigid multi-body systems. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 3030001-3030002.	0.2	1
198	The end of a tough year and a look to the future [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2007, 14, 2-2.	2.2	0

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199	Happy Birthday RAS! [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2007, 14, 2-2.	2.2	3
200	Rototics Take the Next Step [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2007, 14, 2-2.	2.2	1
201	Nanometer Range Closed-Loop Control of a Stepper Micro-Motor for Data Storage. , 2007, , .		1
202	Characterization of stiction effects of an electrostatic micro positioner for probe storage. Journal of Physics: Conference Series, 2006, 34, 818-823.	0.3	0
203	Automation science comes of age [from the Editor's desk]. IEEE Robotics and Automation Magazine, 2006, 13, 2-2.	2.2	3
204	Cayley-Hamilton for roboticists. , 2006, , .		10
205	Intrinsically Passive Force Scaling in Haptic Interfaces. , 2006, , .		4
206	Position Drift Compensation in Port-Hamiltonian Based Telemanipulation. , 2006, , .		51
207	AN INTRODUCTION TO GEOPLEX: PORT BASED MODELING AND CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 465-470.	0.4	0
208	An energy-based electroelastic beam model for MEMS applications. Sensors and Actuators A: Physical, 2005, 121, 500-507.	2.0	9
209	Kartesische Impedanzregelung von Robotern mit elastischen Gelenken: Ein passivitätsbasierter Ansatz (Cartesian Impedance Control of Flexible Joint Robots: A Passivity Based Approach). Automatisierungstechnik, 2005, 53, 378-388.	0.4	2
210	Port-Based Asymptotic Curve Tracking for Mechanical Systems. European Journal of Control, 2004, 10, 411-420.	1.6	61
211	Port Based Modeling of Spatial Visco-Elastic Contacts. European Journal of Control, 2004, 10, 505-514.	1.6	4
212	Passive Compensation of Nonlinear Robot Dynamics. IEEE Transactions on Automation Science and Engineering, 2004, 20, 480-487.	2.4	12
213	Passive Asymptotic Curve Tracking. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 199-204.	0.4	8
214	Hamiltonian Formulation of Planar Beams. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 147-152.	0.4	9
215	Geometric scattering in robotic telemanipulation. IEEE Transactions on Automation Science and Engineering, 2002, 18, 588-596.	2.4	100
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