

Marco Ceccarelli

List of Publications by Year in descending order

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491
papers

5,293
citations

126901

33
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223791

46
g-index

561
all docs

561
docs citations

561
times ranked

2201
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals of Mechanics of Robotic Manipulation. , 2004, , .		229
2	A stiffness analysis for CaPaMan (Cassino Parallel Manipulator). Mechanism and Machine Theory, 2002, 37, 427-439.	4.5	131
3	Designing an underactuated mechanism for a 1 active DOF finger operation. Mechanism and Machine Theory, 2009, 44, 336-348.	4.5	110
4	A multi-objective optimum design of general 3R manipulators for prescribed workspace limits. Mechanism and Machine Theory, 2004, 39, 119-132.	4.5	92
5	A new 3 D.O.F. spatial parallel mechanism. Mechanism and Machine Theory, 1997, 32, 895-902.	4.5	87
6	A formulation for the workspace boundary of general N-revolute manipulators. Mechanism and Machine Theory, 1996, 31, 637-646.	4.5	79
7	Collision free path-planning for cable-driven parallel robots. Robotics and Autonomous Systems, 2009, 57, 1083-1093.	5.1	69
8	A Synthesis Algorithm for Three-Revolute Manipulators by Using an Algebraic Formulation of Workspace Boundary. Journal of Mechanical Design, Transactions of the ASME, 1995, 117, 298-302.	2.9	68
9	Numerical and experimental analysis of non-circular gears and cam-follower systems as function generators. Mechanism and Machine Theory, 2008, 43, 996-1008.	4.5	67
10	Optimal design of CaPaMan (Cassino Parallel Manipulator) with a specified orientation workspace. Robotica, 2002, 20, 159-166.	1.9	65
11	Kinematic analysis and multi-objective optimization of a 3-UPR parallel mechanism for a robotic leg. Mechanism and Machine Theory, 2018, 120, 192-202.	4.5	64
12	Optimal design of driving mechanism in a 1-DOF anthropomorphic finger. Mechanism and Machine Theory, 2006, 41, 897-911.	4.5	60
13	Design and simulation of a waist-trunk system for a humanoid robot. Mechanism and Machine Theory, 2012, 53, 50-65.	4.5	58
14	Comparison of indices for stiffness performance evaluation. Frontiers of Mechanical Engineering in China, 2010, 5, 270-278.	0.4	57
15	A Fairly General Algorithm to Evaluate Workspace Characteristics of Serial and Parallel Manipulators. Mechanics Based Design of Structures and Machines, 2008, 36, 14-33.	4.7	56
16	Legged Robotic Systems. , 2005, , .		49
17	A novel articulated mechanism mimicking the motion of index fingers. Robotica, 2002, 20, 13-22.	1.9	47
18	A stiffness analysis for a hybrid parallel-serial manipulator. Robotica, 2004, 22, 567-576.	1.9	46

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19	Operation analysis of a Chebyshev-Pantograph leg mechanism for a single DOF biped robot. <i>Frontiers of Mechanical Engineering</i> , 2012, 7, 357-370.	4.3	44
20	Design and test of a gripper prototype for horticulture products. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017, 44, 266-275.	9.9	44
21	A Numerical Simulation for Design and Operation of an Underactuated Finger Mechanism for LARM Hand. <i>Mechanics Based Design of Structures and Machines</i> , 2009, 37, 86-112.	4.7	41
22	Application of line geometry and linear complex approximation to singularity analysis of the 3-DOF CaPaMan parallel manipulator. <i>Mechanism and Machine Theory</i> , 2004, 39, 75-95.	4.5	40
23	On the kinematic functionality of a four-bar based mechanism for guiding wheels in climbing steps and obstacles. <i>Mechanism and Machine Theory</i> , 2009, 44, 1507-1523.	4.5	40
24	Grasp configuration planning for a low-cost and easy-operation underactuated three-fingered robot hand. <i>Mechanism and Machine Theory</i> , 2018, 129, 51-69.	4.5	40
25	Experimental tests in human-robot collision evaluation and characterization of a new safety index for robot operation. <i>Mechanism and Machine Theory</i> , 2014, 80, 184-199.	4.5	39
26	A Serial-parallel robotic architecture for surgical tasks. <i>Robotica</i> , 2005, 23, 345-354.	1.9	38
27	An optimum design procedure for both serial and parallel manipulators. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2007, 221, 829-843.	2.1	38
28	CATRASY (Cassino Tracking System): A Wire System for Experimental Evaluation of Robot Workspace. <i>Journal of Robotics and Mechatronics</i> , 2002, 14, 78-87.	1.0	38
29	On the Workspace of General 4R Manipulators. <i>International Journal of Robotics Research</i> , 1995, 14, 152-160.	8.5	37
30	Renaissance of machines in Italy: From Brunelleschi to Galilei through Francesco di Giorgio and Leonardo. <i>Mechanism and Machine Theory</i> , 2008, 43, 1530-1542.	4.5	37
31	Design and numerical characterization of a new leg exoskeleton for motion assistance. <i>Robotica</i> , 2015, 33, 1147-1162.	1.9	37
32	Designing a robotic gripper for harvesting horticulture products. <i>Robotica</i> , 2000, 18, 105-111.	1.9	36
33	Analysis of a Wearable Robotic System for Ankle Rehabilitation. <i>Machines</i> , 2020, 8, 48.	2.2	36
34	Screw axis defined by Giulio Mozzi in 1763 and early studies on helicoidal motion. <i>Mechanism and Machine Theory</i> , 2000, 35, 761-770.	4.5	35
35	An optimum robot path planning with payload constraints. <i>Robotica</i> , 2002, 20, 395-404.	1.9	35
36	An Optimization Problem Algorithm for Kinematic Design of Mechanisms for Two-Finger Grippers. <i>The Open Mechanical Engineering Journal</i> , 2009, 3, 49-62.	0.3	34

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37	Performance analysis of a 3-2-1 pose estimation device. , 2005, 21, 288-297.		33
38	Design and tests of a three finger hand with 1-DOF articulated fingers. Robotica, 2006, 24, 183-196.	1.9	32
39	Identification of the Workspace Boundary Of a General 3-R Manipulator. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 236-242.	2.9	31
40	Characterization of a Cable-Based Parallel Mechanism for Measurement Purposes#. Mechanics Based Design of Structures and Machines, 2010, 38, 25-49.	4.7	31
41	Design of a Two-DOFs Driving Mechanism for a Motion-Assisted Finger Exoskeleton. Applied Sciences (Switzerland), 2020, 10, 2619.	2.5	31
42	A Closed-Form Formulation for the Inverse Dynamics of a Cassino Parallel Manipulator. Multibody System Dynamics, 2001, 5, 185-210.	2.7	30
43	Application of a 3-DOF parallel manipulator for earthquake simulations. IEEE/ASME Transactions on Mechatronics, 2006, 11, 241-246.	5.8	29
44	Regulation and control of LARM Hand III. Robotics and Computer-Integrated Manufacturing, 2010, 26, 202-211.	9.9	29
45	Problems and Issues for Service Robots in New Applications. International Journal of Social Robotics, 2011, 3, 299-312.	4.6	29
46	An experimental characterization of human torso motion. Frontiers of Mechanical Engineering, 2015, 10, 311-325.	4.3	29
47	Stiffness analysis of biped humanoid robot WABIAN-RIV. Mechanism and Machine Theory, 2006, 41, 17-40.	4.5	28
48	Design Considerations for Underactuated Grasp with a one D.O.F. Anthropomorphic Finger Mechanism. , 2006, , .		28
49	Design and Experiments of a Novel Humanoid Robot with Parallel Architectures. Robotics, 2018, 7, 79.	3.5	27
50	Walking programming for an electropneumatic biped robot. Mechatronics, 1999, 9, 941-964.	3.3	26
51	Effect of basic numerical parameters on a path planning of robots taking into account actuating energy. Mechanism and Machine Theory, 2004, 39, 247-260.	4.5	26
52	Experimental Tests on Feasible Operation of a Finger Mechanism in the LARM Hand[#]. Mechanics Based Design of Structures and Machines, 2008, 36, 1-13.	4.7	26
53	An optimum path planning for Cassino Parallel Manipulator by using inverse dynamics. Robotica, 2008, 26, 229-239.	1.9	26
54	Mechanism Schemes in Teaching: A Historical Overview. Journal of Mechanical Design, Transactions of the ASME, 1998, 120, 533-541.	2.9	24

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55	Experimental Stiffness Measurement of WL-16RII Biped Walking Vehicle During Walking Operation. <i>Journal of Robotics and Mechatronics</i> , 2007, 19, 272-280.	1.0	24
56	Robotic teachers' assistants - Low cost robots for research and teaching activities. <i>IEEE Robotics and Automation Magazine</i> , 2003, 10, 37-45.	2.0	23
57	Numerical and experimental characterization of singularities of a six-wire parallel architecture. <i>Robotica</i> , 2006, 25, 315-324.	1.9	23
58	Design issues for human-machine platform interface in cable-based parallel manipulators for physiotherapy applications. <i>Journal of Zhejiang University: Science A</i> , 2010, 11, 231-239.	2.4	23
59	An application of CaTraSys, a cable-based parallel measuring system for an experimental characterization of human walking. <i>Robotica</i> , 2010, 28, 119-133.	1.9	23
60	Design improvements and control of a hybrid walking robot. <i>Robotics and Autonomous Systems</i> , 2011, 59, 128-141.	5.1	23
61	A kinematic characterization of human walking by using CaTraSys. <i>Mechanism and Machine Theory</i> , 2015, 86, 125-139.	4.5	23
62	A Low-Cost Easy-Operation Hexapod Walking Machine. <i>International Journal of Advanced Robotic Systems</i> , 2008, 5, 21.	2.1	22
63	Parallel Architectures for Humanoid Robots. <i>Robotics</i> , 2020, 9, 75.	3.5	22
64	Progress and Development Trend of Space Intelligent Robot Technology. <i>Space: Science & Technology</i> , 2022, 2022, .	2.5	22
65	An analytical design for three circular-arc cams. <i>Mechanism and Machine Theory</i> , 2002, 37, 915-924.	4.5	21
66	Analysis and optimal design of an underactuated finger mechanism for LARM hand. <i>Frontiers of Mechanical Engineering</i> , 2011, 6, 332.	4.3	21
67	Kinematic calibration of precise 6-DOF Stewart platform-type positioning systems for radio telescope applications. <i>Frontiers of Mechanical Engineering</i> , 2013, 8, 252-260.	4.3	21
68	A Survey on Mechanical Solutions for Hybrid Mobile Robots. <i>Robotics</i> , 2020, 9, 32.	3.5	21
69	A workspace evaluation of an eclipse robot. <i>Robotica</i> , 2002, 20, 299-313.	1.9	20
70	A short account of history of IFToMM and its role in MMS. <i>Mechanism and Machine Theory</i> , 2015, 89, 75-91.	4.5	20
71	An experimental validation of a novel humanoid torso. <i>Robotics and Autonomous Systems</i> , 2017, 91, 299-313.	5.1	20
72	A Historical Perspective of Robotics Toward the Future. <i>Journal of Robotics and Mechatronics</i> , 2001, 13, 299-313.	1.0	20

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73	A Biped Walking Mechanism for a Rickshaw Robot[#]. Mechanics Based Design of Structures and Machines, 2010, 38, 227-242.	4.7	19
74	A unified dynamic control method for a redundant dual arm robot. Journal of Bionic Engineering, 2015, 12, 361-371.	5.0	19
75	Design and Simulation of a Cable-Driven Vertebra-Based Humanoid Torso. International Journal of Humanoid Robotics, 2016, 13, 1650015.	1.1	19
76	HeritageBot platform for service in Cultural Heritage frames. International Journal of Advanced Robotic Systems, 2018, 15, 172988141879069.	2.1	19
77	Design and Performance of an Elbow Assisting Mechanism. Machines, 2020, 8, 68.	2.2	19
78	A formulation for path planning of manipulators in complex environments by using adjacent configurations. Advanced Robotics, 1996, 11, 33-56.	1.8	18
79	A 4–4 cable-based parallel manipulator for an application in hospital environment. , 2007, , .		18
80	Water Dancer II-A: A Non-Tethered Telecontrollable Water Strider Robot. International Journal of Advanced Robotic Systems, 2011, 8, 39.	2.1	18
81	Design and simulation of an underactuated finger mechanism for LARM Hand. Robotica, 2017, 35, 483-497.	1.9	18
82	Climbing stairs with EP-WAR2 biped robot. , 0, , .		17
83	Development of a humanoid robot having 2-DOF waist and 2-DOF trunk. , 0, , .		17
84	Operation Strategy for a Low-Cost Easy-Operation Cassino Hexapod. Applied Bionics and Biomechanics, 2007, 4, 149-156.	1.1	17
85	A Methodology for the Design of Robotic Hands with Multiple Fingers. International Journal of Advanced Robotic Systems, 2008, 5, 22.	2.1	17
86	Design and Simulation of a Leg Exoskeleton Linkage for a Human Rehabilitation System. Mechanisms and Machine Science, 2014, , 117-125.	0.5	17
87	Experimental tests on operation performance of a LARM leg mechanism with 3-DOF parallel architecture. Mechanical Sciences, 2015, 6, 1-8.	1.0	17
88	Approximate four-bar circle-tracing mechanisms: classical and new synthesis. Mechanism and Machine Theory, 2000, 35, 1579-1599.	4.5	16
89	Singularity analysis of CaPaMan: A three-degree of freedom spatial parallel manipulator. , 0, , .		16
90	A Low-Cost Easy Operation 4-Cable Driven Parallel Manipulator. , 0, , .		16

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91	Early TMM in Le Mekaniche by Galileo Galilei in 1593. Mechanism and Machine Theory, 2006, 41, 1401-1406.	4.5	16
92	A Brief Illustrated History of Machines and Mechanisms. History of Mechanism and Machine Science, 2010, , .	0.2	16
93	Application of Counter-Rotary Counterweights to the Dynamic Balancing of a Spatial Parallel Manipulator. Applied Mechanics and Materials, 2012, 162, 224-233.	0.2	16
94	Towards a safety index for assessing head injury potential in service robotics. Advanced Robotics, 2013, 27, 831-844.	1.8	16
95	Force transmission and constraint analysis of a 3-SPR parallel manipulator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4399-4409.	2.1	16
96	Master-Slave Control of an Intention-Actuated Exoskeletal Robot for Locomotion and Lower Extremity Rehabilitation. International Journal of Precision Engineering and Manufacturing, 2018, 19, 983-991.	2.2	16
97	Design of arm exercises for rehabilitation assistance. Journal of Engineering Research, 2020, 8, 203-218.	0.7	16
98	The Effects of Design Parameters on the Workspace of a Turin Parallel Robot. International Journal of Robotics Research, 1998, 17, 886-902.	8.5	15
99	Grasp force control in two-finger grippers with pneumatic actuation. , 0, , .		15
100	Uncertainty Model and Singularities of 3-2-1 Wire-Based Tracking Systems. , 2002, , 107-116.		15
101	Descending stairs with EP-WAR3 biped robot. , 0, , .		15
102	Kinematic and Dynamic Analyses of a Pantograph-Leg for a Biped Walking Machine. , 2005, , 561-568.		15
103	Position and Force Control of a Parallel Robot Capaman 2 Bis Parallel Robot for Drilling Tasks. , 2009, , .		15
104	Analysis and design for changing finger posture in a robotic hand. Mechanism and Machine Theory, 2010, 45, 828-843.	4.5	15
105	New Assistive Device for People with Motor Disabilities. Applied Mechanics and Materials, 0, 772, 574-579.	0.2	15
106	Design and Characterization of a Novel Knee Articulation Mechanism. International Journal of Applied Mechanics and Engineering, 2016, 21, 611-622.	0.7	15
107	NURSE-2 DoF Device for Arm Motion Guidance: Kinematic, Dynamic, and FEM Analysis. Applied Sciences (Switzerland), 2020, 10, 2139.	2.5	15
108	Development and characterisation of a controllable adjustable knee joint mechanism. Mechanism and Machine Theory, 2021, 155, 104101.	4.5	15

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109	Historical Evolution of the Classification of Mechanisms. , 2004, , 285-302.		15
110	LARM Bot Humanoid Design Towards a Prototype. MOJ Applied Bionics and Biomechanics, 2017, 1, .	0.3	15
111	Application of Robots for Inspection and Restoration of Historical Sites. , 2005, , .		14
112	Trends in the drawing of mechanisms since the early Middle Ages. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 269-289.	2.1	13
113	Workspace Topologies of Industrial 3R Manipulators. International Journal of Advanced Robotic Systems, 2007, 4, 38.	2.1	13
114	Burmester and Allievi: A Theory and Its Application for Mechanism Design at the End of 19th Century. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	13
115	The Genius of Archimedes – 23 Centuries of Influence on Mathematics, Science and Engineering. History of Mechanism and Machine Science, 2010, , .	0.2	13
116	An Experimental Analysis of Overcoming Obstacle in Human Walking. Journal of Bionic Engineering, 2014, 11, 497-505.	5.0	13
117	Design and simulated characteristics of a new biped mechanism. Robotica, 2015, 33, 1568-1588.	1.9	13
118	Multi-objective optimization of a parallel manipulator for the design of a prosthetic arm using genetic algorithms. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	13
119	Notes for a History of Grasping Devices. Mechanisms and Machine Science, 2013, , 3-16.	0.5	13
120	Design, Modeling and Experimentation of a Biomimetic Wall-climbing Robot for Multiple Surfaces. Journal of Bionic Engineering, 2020, 17, 523-538.	5.0	13
121	Optimal design of 3R manipulators by using classical techniques and simulated annealin. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2002, 24, 293-301.	0.1	13
122	Experimental Characterization of Operation of a Waist-Trunk System with Parallel Manipulators. Chinese Journal of Mechanical Engineering (English Edition), 2011, 24, 713.	3.7	13
123	Cassino Hexapod : Experiences and new leg design. , 2010, , .		12
124	LARM PKM solutions for torso design in humanoid robots. Frontiers of Mechanical Engineering, 2014, 9, 308-316.	4.3	12
125	LARMbot: A New Humanoid Robot with Parallel Mechanisms. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 275-283.	0.6	12
126	A feasibility study on the design and walking operation of a biped locomotor via dynamic simulation. Frontiers of Mechanical Engineering, 2016, 11, 144-158.	4.3	12

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127	Design and Feasibility Study of a Leg-exoskeleton Assistive Wheelchair Robot with Tests on Gluteus Medius Muscles. Sensors, 2019, 19, 548.	3.8	12
128	Service Robots for Restoration of Goods of Cultural Heritage. , 2012, , 213-228.		12
129	An optimum synthesis for gripping mechanisms by using natural coordinates. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2002, 216, 643-653.	2.1	11
130	Design and Characterization of a New Planetary Gear Box. Mechanisms and Machine Science, 2014, , 91-98.	0.5	11
131	Topology search of 3-DOF translational parallel manipulators with three identical limbs for leg mechanisms. Chinese Journal of Mechanical Engineering (English Edition), 2015, 28, 666-675.	3.7	11
132	HeritageBot Service Robot assisting in Cultural Heritage. , 2017, , .		11
133	Design and simulation of leg exoskeleton cycling-actuated wheelchair. International Journal of Advanced Robotic Systems, 2017, 14, 172988141774173.	2.1	11
134	Innovation challenges for Mechanism Design. Mechanism and Machine Theory, 2018, 125, 94-100.	4.5	11
135	Experimental Results of a 3-DOF Parallel Manipulator as an Earthquake Motion Simulator. , 2004, , .		11
136	An experimental characterization of human falling down. Mechanical Sciences, 2017, 8, 79-89.	1.0	11
137	Designing Two-Revolute Manipulators for Prescribed Feasible Workspace Regions. Journal of Mechanical Design, Transactions of the ASME, 2002, 124, 427-434.	2.9	10
138	Design of LARM hand: Problems and solutions. , 2008, , .		10
139	Design and operation of a tripod walking robot via dynamics simulation. Robotica, 2011, 29, 733-743.	1.9	10
140	A falling motion control of humanoid robots based on biomechanical evaluation of falling down of humans. , 2015, , .		10
141	Conceptual Kinematic Design and Performance Evaluation of a Chameleon-Like Service Robot for Space Stations. International Journal of Advanced Robotic Systems, 2015, 12, 17.	2.1	10
142	Elastodynamic Model-Based Vibration Characteristics Prediction of a Three Prismaticâ€“Revoluteâ€“Spherical Parallel Kinematic Machine. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	10
143	Experimental characterization of an osteosynthesis implant. Mechanisms and Machine Science, 2019, , 53-62.	0.5	10
144	Problems and Experiences on Cable-Based Service Robots for Physiotherapy Applications. Mechanisms and Machine Science, 2014, , 27-42.	0.5	10

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145	Design Optimization of a Cable-Driven Parallel Robot in Upper Arm Training-Rehabilitation Processes. Mechanisms and Machine Science, 2018, , 413-423.	0.5	10
146	Design Considerations for an Underactuated Robotic Finger Mechanism. Chinese Journal of Mechanical Engineering (English Edition), 2009, 22, 475.	3.7	10
147	Optimal synthesis of three-revolute manipulators. Meccanica, 1994, 29, 95-103.	2.0	9
148	AN ALGEBRAIC FORMULATION AND EXPERIMENTAL ANALYSIS OF TWO CIRCULAR-ARC CAMS. Transactions of the Canadian Society for Mechanical Engineering, 2001, 25, 29-49.	0.8	9
149	A 3-DOF parallel manipulator as earthquake motion simulator. , 0, , .		9
150	Dynamic performance of CaPaMan by numerical simulations. Mechanism and Machine Theory, 2002, 37, 241-266.	4.5	9
151	Stiffness analysis of the humanoid robot WABIAN-RIV: modelling. , 0, , .		9
152	Analysis and grasp strategy modeling for underactuated multi-fingered robot hand. , 2009, , .		9
153	Prototype Design and Performance Tests of Beijing's Astronaut Robot. Applied Sciences (Switzerland), 2018, 8, 1342.	2.5	9
154	Enhanced D-H: an improved convention for establishing a robot link coordinate system fixed on the joint. Industrial Robot, 2019, 47, 197-205.	2.1	9
155	Pipeline Inspection Tests Using a Biomimetic Robot. Biomimetics, 2021, 6, 17.	3.3	9
156	DESIGN AND PROBLEMS OF A NEW LEG-WHEEL WALKING ROBOT. , 2007, , .		9
157	Control Design for CABLEankle, a Cable Driven Manipulator for Ankle Motion Assistance. Actuators, 2022, 11, 63.	2.3	9
158	A Characterization of the Workspace Boundary of Three-Revolute Manipulators. , 2002, , 1177.		8
159	Workspace analysis and performance of a binary actuated parallel manipulator with flexural joints. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2003, 217, 313-330.	2.1	8
160	EP-WAR3 biped robot for climbing and descending stairs. Robotica, 2004, 22, 405-417.	1.9	8
161	Agustin Betancourt: An Early Modern Scientist and Engineer in TMM. , 2006, , 301.		8
162	A Brief Account on Roman Machines and Cultural Frames. , 2009, , 83-100.		8

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163	Analysis and design of a modular underactuated mechanism for robotic fingers. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 242-256.	2.1	8
164	Contributions of Archimedes on mechanics and design of mechanisms. Mechanism and Machine Theory, 2014, 72, 86-93.	4.5	8
165	Adaptive fuzzy sliding mode control for redundant manipulators with varying payload. Industrial Robot, 2016, 43, 665-676.	2.1	8
166	Design and Kinematic Analysis of a Novel Metamorphic Mechanism for Lower Limb Rehabilitation. Mechanisms and Machine Science, 2016, , 545-558.	0.5	8
167	Experimental Validation of HeritageBot III, a Robotic Platform for Cultural Heritage. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 223-237.	3.4	8
168	A prototype characterization of ExoFinger, a finger exoskeleton. International Journal of Advanced Robotic Systems, 2021, 18, 172988142110248.	2.1	8
169	Design and Experimental Characterization of L-CADEL v2, an Assistive Device for Elbow Motion. Sensors, 2021, 21, 5149.	3.8	8
170	A Geometrical Characterization of Workspace Singularities in 3R Manipulators. , 2008, , 411-418.		8
171	Experimental Dynamic Tests of Rib Implants. Mechanisms and Machine Science, 2019, , 353-361.	0.5	8
172	Kinematic Design of a Tripod Parallel Mechanism for Robotic Legs. Mechanisms and Machine Science, 2018, , 121-130.	0.5	8
173	Kinematic Analysis of an Exoskeleton-Based Robot for Elbow and Wrist Rehabilitation. Mechanisms and Machine Science, 2018, , 424-433.	0.5	8
174	Italian Kinematic Studies in XIXth Century. , 2000, , 197-206.		8
175	Seismic motion simulation based on Cassino Parallel Manipulator. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2002, 24, 213-219.	0.1	8
176	Logical sensors and control system programming for an autonomous biped walking robot. , 0, , .		7
177	Stiffness performance estimation for biped locomotor WL-15. , 0, , .		7
178	Coordinate-free formulation of a 3-2-1 wire-based tracking device using Cayley-Menger determinants. , 0, , .		7
179	A Cartesian Representation for the Boundary Workspace of 3R Manipulators. , 2004, , 247-254.		7
180	Antropomorphic Design and Operation of a New Low-Cost Humanoid Robot. , 0, , .		7

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181	A Performance Analysis of a 4 Cable-Driven Parallel Manipulator. , 2006, , .		7
182	A design of a new leg-wheel walking robot. , 2007, , .		7
183	Simulation results for design and operation of CALUMA, a new low-cost humanoid robot. Robotica, 2008, 26, 601-618.	1.9	7
184	Problems and requirements for a chameleon-like service robot in space station. , 2011, , .		7
185	Numerical solution for designing telescopic manipulators with prescribed workspace points. Robotics and Computer-Integrated Manufacturing, 2014, 30, 201-205.	9.9	7
186	Structure-control design of a mechatronic system with parallelogram mechanism using an estimation of distribution algorithm. Mechanics Based Design of Structures and Machines, 2016, 44, 58-71.	4.7	7
187	Mechanical Design and Assessment of a Low-Cost 7-DOF Prosthetic Arm for Shoulder Disarticulation. Applied Bionics and Biomechanics, 2018, 2018, 1-13.	1.1	7
188	Kinematic Modelling and Motion Analysis of a Humanoid Torso Mechanism. Applied Sciences (Switzerland), 2021, 11, 2607.	2.5	7
189	Design and Experimental Characterization of a Cable-Driven Elbow Assisting Device. Journal of Medical Devices, Transactions of the ASME, 2021, 15, .	0.7	7
190	Design and Simulation of Kursk Robot for In-Pipe Inspection. , 2010, , 103-114.		7
191	Marcus Vitruvius Pollio (Second Half of the 1st Century B.C.). History of Mechanism and Machine Science, 2014, , 309-346.	0.2	7
192	An Analytical Design for CaPaMan With Prescribed Position and Orientation. , 2000, , .		7
193	International Symposium on History of Machines and Mechanisms. , 2009, , .		7
194	Experimental Validation of Light Cable-Driven Elbow-Assisting Device L-CADEL Design. Journal of Bionic Engineering, 2022, 19, 416-428.	5.0	7
195	Design of a Robot for Inspecting the Multishape Pipeline Systems. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4608-4618.	5.8	7
196	Easy Programming of an Electropneumatic Walking Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 747-754.	0.4	6
197	Numerical and experimental estimation of stiffness performances for the humanoid robot WABIAN-RV. , 0, , .		6
198	A Fairly Simple Method to Identify the Curvature of a Cam Profile. , 2004, , 987.		6

#	ARTICLE	IF	CITATIONS
199	Title is missing!. Mechanism and Machine Theory, 2006, 41, 883.	4.5	6
200	DESIGN AND SIMULATION OF A 1-DOF ANTHROPOMORPHIC CLUTCHED ARM FOR HUMANOID ROBOTS. International Journal of Humanoid Robotics, 2010, 07, 157-182.	1.1	6
201	A Multiobjective Optimal Path Planning for a 1-DOF Clutched ARM. Mechanics Based Design of Structures and Machines, 2012, 40, 109-121.	4.7	6
202	An experimental analysis of human straight walking. Frontiers of Mechanical Engineering, 2013, 8, 95-103.	4.3	6
203	Figures and achievements in MMS as landmarks in history of MMS for inspiration of IFToMM activity. Mechanism and Machine Theory, 2016, 105, 529-539.	4.5	6
204	Motion planning for humanoid robot dynamically stepping over consecutive large obstacles. Industrial Robot, 2016, 43, 204-220.	2.1	6
205	Experimental Characterization of NURSE, a Device for Arm Motion Guidance. Journal of Healthcare Engineering, 2018, 2018, 1-15.	1.9	6
206	How to Use 3D Printing for Feasibility Check of Mechanism Design. Advances in Intelligent Systems and Computing, 2016, , 307-315.	0.6	6
207	Mechanical Design of a Prosthetic Human Arm and its Dynamic Simulation. Advances in Intelligent Systems and Computing, 2017, , 482-490.	0.6	6
208	Design and Experimental Validation of a Microgripper. Journal of Robotics and Mechatronics, 2001, 13, 319-325.	1.0	6
209	Experimental and Numerical Characterization of CaPaMan 2bis Operation. Journal of Applied Research and Technology, 2010, 8, .	0.9	6
210	Design and Simulation of a Waist-Trunk System for a Humanoid Robot. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2010, , 217-224.	0.6	6
211	Numerical and experimental performance estimation for a ExoFing - 2 DOFs finger exoskeleton. Robotica, 2022, 40, 1820-1832.	1.9	6
212	Displacement analysis of a Thrin Platform parallel manipulator. Advanced Robotics, 1996, 11, 17-31.	1.8	5
213	On the workspace of telescopic manipulators. Robotica, 1998, 16, 691-696.	1.9	5
214	CaPaMan (Cassino Parallel Manipulator) as sensed earthquake simulator. , 0, , .		5
215	A manipulation analysis for robot programming. Robotica, 1999, 17, 529-541.	1.9	5
216	Error analysis and experimental tests of CATRASYS (Cassino Tracking System). , 0, , .		5

#	ARTICLE	IF	CITATIONS
217	Design and Test of an Articulated Mechanism for a 1 DOF Anthropomorphic Finger. , 2002, , 857.		5
218	A Design and Simulation of CALUMA (CAssino Low-Cost hUMANoid Robot). , 2006, , 659.		5
219	Level-set method for workspace analysis of serial manipulators. , 2006, , 307-314.		5
220	Design and Evaluation of a Discretely Actuated Multi-Module Parallel Manipulator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2006, 220, 513-526.	2.1	5
221	Operation strategy for a low-cost easy-operation Cassino Hexapod. Applied Bionics and Biomechanics, 2008, 4, 149-156.	1.1	5
222	The Historical Development of Catrasys, a Cable System. History of Mechanism and Machine Science, 2012, , 365-379.	0.2	5
223	Advances on Theory and Practice of Robots and Manipulators. Mechanisms and Machine Science, 2014, , .	0.5	5
224	Validation Process of Pose Accuracy Estimation in Parallel Robots. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	5
225	Design optimization of a cable-based parallel tracking system by using evolutionary algorithms. Robotica, 2015, 33, 599-610.	1.9	5
226	Analysis and Comparison of Motion Capture Systems for Human Walking. Experimental Techniques, 2016, 40, 875-883.	1.5	5
227	Introduction to the special issue on the 2015 Workshop on History of Mechanism and Machine Science. Frontiers of Mechanical Engineering, 2016, 11, 1-2.	4.3	5
228	Design and Construction of a Demonstrative HeritageBot Platform. Mechanisms and Machine Science, 2018, , 355-362.	0.5	5
229	A historical study and mechanical classification of ancient music-playing automata. Mechanism and Machine Theory, 2018, 121, 273-285.	4.5	5
230	An Experimental Characterization of TORVEastro, Cable-Driven Astronaut Robot. Robotics, 2021, 10, 21.	3.5	5
231	Design and experience of a test-bed for gearboxes. Mechanisms and Machine Science, 2019, , 967-976.	0.5	5
232	A Characterization of Human Locomotion by CATRASYS (Cassino Tracking System). Mechanisms and Machine Science, 2013, , 469-477.	0.5	5
233	Cable-Driven Robots in Physical Rehabilitation. Advances in Computational Intelligence and Robotics Book Series, 2020, , 52-96.	0.4	5
234	A Robot Application for Analysis, Survey and Conservation of Historical Architectures. , 0, , .		5

#	ARTICLE	IF	CITATIONS
235	Design of an Articulated Neck to Assess Impact Head-Neck Injuries. <i>Life</i> , 2022, 12, 313.	2.4	5
236	Workspace analysis and design of open-chain manipulators. , 1998, , .		4
237	Design Problems for Parallel Manipulators in Assembling Operations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 13-26.	0.4	4
238	Dynamic simulation and experiments for the design of a new 7-dofs biped walking leg module. <i>Robotica</i> , 2004, 22, 41-50.	1.9	4
239	An optimal design of driving mechanism in a 1 degree of freedom (d.o.f.) anthropomorphic finger. <i>Applied Bionics and Biomechanics</i> , 2005, 2, 103-110.	1.1	4
240	Numerical and experimental analyses of radial cams with circular-arc profiles. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2006, 220, 111-125.	2.1	4
241	An Optimal Design for a New Underactuated Finger Mechanism. , 2009, , 149-157.		4
242	Devices for Distance and Time Measurement at the Time of Roman Empire. , 2009, , 101-114.		4
243	Grasping Simulation of an Underactuated Finger Mechanism for Larm Hand. <i>International Journal of Modelling and Simulation</i> , 2010, 30, 87-97.	3.3	4
244	Workspace Analysis and Design Improvement of a Carotid Flow Measurement System. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 1311-1323.	1.8	4
245	A formulation for automatic generation of workspace boundary of N-R manipulators. <i>International Journal of Mechanisms and Robotic Systems</i> , 2013, 1, 2.	0.1	4
246	Design and simulation of a cable-pulley-based transmission for artificial ankle joints. <i>Frontiers of Mechanical Engineering</i> , 2016, 11, 170-183.	4.3	4
247	A Dynamic Compensation for Roll Hemming Process. <i>IEEE Access</i> , 2018, 6, 18264-18275.	4.2	4
248	Experimental characterization of assisted human arm exercises. , 2018, , .		4
249	An Experimental Characterization of a Parallel Mechanism for Robotic Legs. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019, , 18-25.	0.6	4
250	Effects of Voltage Dips on Robotic Grasping. <i>Robotics</i> , 2019, 8, 28.	3.5	4
251	Experiences in Leadership IFToMM: Achievements and Challenges. <i>Mechanisms and Machine Science</i> , 2022, , 3-16.	0.5	4
252	Experimental Characterization of a Cable-Driven Device for Elbow Motion Assistance. <i>Mechanisms and Machine Science</i> , 2021, , 71-78.	0.5	4

#	ARTICLE	IF	CITATIONS
253	Francesco Masi (1852â€“1944). History of Mechanism and Machine Science, 2009, , 141-162.	0.2	4
254	Challenges for Mechanism Design. , 2010, , 1-13.		4
255	Activity and Trends in MMS from IFToMM Community. Mechanisms and Machine Science, 2011, , 3-24.	0.5	4
256	An Experimental Characterization of a Rickshaw Prototype. Mechanisms and Machine Science, 2012, , 203-214.	0.5	4
257	Considerations on Mechanism Designs as Suitable for Cultural Heritage Evaluation. Advances in Historical Studies, 2013, 02, 175-184.	0.1	4
258	Medium Size Companies of Mechanical Industry in Northern Italy During the Second Half of the 19th Century. History of Mechanism and Machine Science, 2016, , 181-198.	0.2	4
259	Prototype Design and Testing of TORVEastro, Cable-Driven Astronaut Robot. Mechanisms and Machine Science, 2020, , 448-455.	0.5	4
260	Requirements and Solutions for Motion Limb Assistance of COVID-19 Patients. Robotics, 2022, 11, 45.	3.5	4
261	A geometrical formulation for the workspace of parallel manipulators. Robotica, 2022, 40, 2581-2591.	1.9	4
262	Kinematic study of feasibility of geared planar parallel manipulator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 10001-10016.	2.1	4
263	Optimal Design and Location of Manipulators. , 1995, , 131-146.		3
264	Generation of adjacent configurations for a collision-free path planning of manipulators. Robotica, 1996, 14, 391-396.	1.9	3
265	An experimental validation of CaPaMan as earthquake simulator. , 0, , .		3
266	Stiffness analysis for 6-DOF mouth training parallel robot WY-5. , 0, , .		3
267	An Experimental Validation of Three Circular-Arc Cams with Offset Followers. Mechanics Based Design of Structures and Machines, 2006, 34, 261-276.	4.7	3
268	Simulation of combined motions for a 1-DOF clutched robotic arm. , 2009, , .		3
269	Trajectory planning for a 1-DOF clutched robotic arm. Robotica, 2011, 29, 745-756.	1.9	3
270	A Formulation for Analytical Design of Telescopic Manipulators with Prescribed Workspace. Applied Mechanics and Materials, 2012, 162, 113-120.	0.2	3

#	ARTICLE	IF	CITATIONS
271	A Robotic Solution for the Restoration of Fresco Paintings. International Journal of Advanced Robotic Systems, 2015, 12, 160.	2.1	3
272	A master-slave control system for lower limb rehabilitation robot with pedal-actuated exoskeleton. , 2016, , .		3
273	A generic walking pattern generation method for humanoid robot walking on the slopes. Industrial Robot, 2016, 43, 317-327.	2.1	3
274	Prototype and Testing of HeritageBot Platform for Service in Cultural Heritage. , 2017, , 103-112.		3
275	Kinematic Analysis of a Continuum Parallel Robot. Mechanisms and Machine Science, 2017, , 173-180.	0.5	3
276	A Falling Motion Strategy for Humanoids Based on Motion Primitives of Human Falling. Mechanisms and Machine Science, 2018, , 264-272.	0.5	3
277	Fall Protection of Humanoids Inspired by Human Fall Motion. , 2018, , .		3
278	Kinematic Design of a Parallel Robot for Elbow and Wrist Rehabilitation. Mechanisms and Machine Science, 2018, , 147-154.	0.5	3
279	Gait Transition Between Standing and Falling Down for a Humanoid Robot. Mechanisms and Machine Science, 2019, , 2501-2509.	0.5	3
280	Dynamics of a Humanoid Robot with Parallel Architectures. Mechanisms and Machine Science, 2019, , 1799-1808.	0.5	3
281	Celebrations for the 50-Year Anniversary of IFToMM. Machines, 2019, 7, 53.	2.2	3
282	Force Analysis and Curve Design for Laying Pipe in Loop Laying Head of Wire Rod Mills. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	3.7	3
283	Design and performance simulation of TORVEastro three-link astronaut robot. IOP Conference Series: Materials Science and Engineering, 2019, 659, 012010.	0.6	3
284	Underactuated Elements Design Criterion for Envelop Gripper Mechanism. Mechanisms and Machine Science, 2019, , 432-442.	0.5	3
285	Combination of Hardware and Control to Reduce Humanoids Fall Damage. International Journal of Humanoid Robotics, 2020, 17, 2050002.	1.1	3
286	Impact Device for Biomechanics of Human Head-Neck Injuries. Mathematical Problems in Engineering, 2021, 2021, 1-8.	1.1	3
287	Virtual and Physical Prototyping of Reconfigurable Parallel Mechanisms with Single Actuation. Applied Sciences (Switzerland), 2021, 11, 7158.	2.5	3
288	A Short Introduction on IFToMM Officers Over Time. , 2004, , 3-10.		3

#	ARTICLE	IF	CITATIONS
289	Design and Operation Improvements for CADEL Cable-Driven Elbow Assisting Device. Mechanisms and Machine Science, 2021, , 503-511.	0.5	3
290	Requirements and Constraints for a Robotized Roll Hemming Solution. Advances in Intelligent Systems and Computing, 2017, , 244-251.	0.6	3
291	Design and Lab Tests of a Scaled Leg Exoskeleton with Electric Actuators. Mechanisms and Machine Science, 2018, , 719-726.	0.5	3
292	Design and Experiences of a Planetary Gear Box for Adaptive Drives. Mechanisms and Machine Science, 2019, , 284-291.	0.5	3
293	The Mechanics of Archimedes Towards Modern Mechanism Design. History of Mechanism and Machine Science, 2010, , 177-187.	0.2	3
294	Early Studies in Screw Theory. , 2000, , 411-422.		3
295	Collision-Avoidance Robot Path Planning Using Fully Cartesian Coordinates. , 1994, , 485-494.		3
296	Shape and location design of supporting legs for a new Water Strider Robot. , 2011, , .		3
297	A Study of Feasibility for a Novel Parallel-serial Manipulator. Journal of Robotics and Mechatronics, 2002, 14, 304-312.	1.0	3
298	An Application of a 3-DOF Parallel Manipulator for Earthquake Simulations. , 2005, , .		3
299	A Characterization of Cam Transmissions Through an Identification of Lumped Parameters. , 2006, , .		3
300	Design and Validation of Force Control Loops for a Parallel Manipulator. International Journal of Intelligent Mechatronics and Robotics, 2011, 1, 1-18.	0.4	3
301	History of Human Powered Threshing Machines: A Literature Review. History of Mechanism and Machine Science, 2012, , 431-445.	0.2	3
302	Historical Accounts on the Figure of Engineers and Academic Mission for their Formation. Mechanisms and Machine Science, 2014, , 3-10.	0.5	3
303	Peculiarities of Evolution of Machine Technology and Its Industrialization in Italy during 19th Century. Advances in Historical Studies, 2015, 04, 338-355.	0.1	3
304	Science, Technology and Industry in Southern Italy Before the Unification. History of Mechanism and Machine Science, 2016, , 159-179.	0.2	3
305	Experimental Evaluation of Artificial Human Ribs. Mechanisms and Machine Science, 2018, , 434-443.	0.5	3
306	Ball Bearings from Roman Imperial Ships of Nemilake. Advances in Historical Studies, 2019, 08, 115-130.	0.1	3

#	ARTICLE	IF	CITATIONS
307	Francesco di Giorgio (1439–1501). History of Mechanism and Machine Science, 2020, , 47-66.	0.2	3
308	Recent Advances and Challenges in the IFToMM PC for History of MMS. History of Mechanism and Machine Science, 2022, , 10-23.	0.2	3
309	In Memory of Past PC Members. History of Mechanism and Machine Science, 2022, , 3-9.	0.2	3
310	Design and Performance of a Motion-Assisting Device for Ankle. Mechanisms and Machine Science, 2022, , 659-668.	0.5	3
311	A Novel Two-Degree-of-Freedom Gimbal for Dynamic Laser Weeding: Design, Analysis, and Experimentation. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5016-5026.	5.8	3
312	Feasible Workspace Regions for a Two-Revolute Manipulator Design. , 1996, , 189-198.		2
313	An Analytical Design of Telescopic Manipulator Arms for Prescribed Workspace. , 1998, , 247-254.		2
314	ON THE DESIGN OF A FOUR-BAR MECHANISM FOR OBSTACLES CLIMBING WHEELS. , 2007, , .		2
315	Giulio Mozzi (1730–1813). , 2007, , 279-293.		2
316	Mechatronics management a BSC program. , 2008, , .		2
317	Kinematic Design of Manipulators. , 0, , .		2
318	Analysis and optimal design of a modular underactuated mechanism for robot fingers. , 2009, , .		2
319	A Vision on Machines. History of Mechanism and Machine Science, 2009, , 169-205.	0.2	2
320	The Twenty-One Books of Devices and Machines: An Encyclopedia of Machines and Mechanisms of the 16th Century. , 2009, , 115-132.		2
321	A New Design for Cassino Hexapod Robot. , 2010, , .		2
322	Historical Development of Paper Mills and Their Machines in South Latium During the Nineteenth Century. History of Mechanism and Machine Science, 2011, , 85-117.	0.2	2
323	Simulation of the Lumbar Spine as a Multi-Module Parallel Manipulator. Applied Bionics and Biomechanics, 2011, 8, 399-410.	1.1	2
324	Additional Actuations for Obstacle Overcoming by a Leg Mechanism. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6898-6903.	0.4	2

#	ARTICLE	IF	CITATIONS
325	2011 IFToMM Executive Council Meeting. Mechanism and Machine Theory, 2012, 48, 140-143.	4.5	2
326	Analysis of the Dynamic Behavior of an Electric Vehicle Using an Equivalent Roll Stiffness Model. Mechanisms and Machine Science, 2013, , 599-607.	0.5	2
327	A design procedure for conceptual design of mechanisms. International Journal of Mechanisms and Robotic Systems, 2013, 1, 136.	0.1	2
328	Underactuated Finger Mechanism for LARM Hand. Mechanisms and Machine Science, 2014, , 283-291.	0.5	2
329	Design and Operation Analysis of a New Biped Mechanism. International Journal of Humanoid Robotics, 2014, 11, 1450017.	1.1	2
330	Mechanism of a Leg Exoskeleton for Walking Rehabilitation Purposes. Mechanisms and Machine Science, 2014, , 107-114.	0.5	2
331	A Dynamic Analysis Based on MBD ADAMS Program for a Variant of Quadruped Robot. Applied Mechanics and Materials, 0, 823, 429-434.	0.2	2
332	Innovation of MMS with Inspiration from the Past. International Journal of Applied Mechanics and Engineering, 2016, 21, IX-XXII.	0.7	2
333	Applied Mathematics to Mobile Robotics and Their Applications. Mathematical Problems in Engineering, 2017, 2017, 1-2.	1.1	2
334	Advances in the Mechanical Design of Robots. Inventions, 2018, 3, 10.	2.5	2
335	Experimental Characterization of the Coupling Stage of a Two-Stage Planetary Gearbox in Variable Operational Conditions. Machines, 2019, 7, 45.	2.2	2
336	A fairly simple mechatronic device for training human wrist motion. International Journal of Advanced Robotic Systems, 2020, 17, 172988142097428.	2.1	2
337	End-Term Message from the IFToMM President. Journal of Vibration Engineering and Technologies, 2020, 8, 381-389.	2.2	2
338	Driving Mechanism in Robotized Hospital Bed for Patients with COVID 19. Mechanisms and Machine Science, 2021, , 179-186.	0.5	2
339	A Comparison of Algebraic and Iterative Procedures for the Generation of the Workspace of Parallel Robots. Mechanisms and Machine Science, 2021, , 53-61.	0.5	2
340	Prototype and Testing of LARMBot PK Arm. Mechanisms and Machine Science, 2022, , 210-219.	0.5	2
341	Redesign and Construction of a Low-Cost CaPaMan Prototype. Mechanisms and Machine Science, 2019, , 158-165.	0.5	2
342	Multi-objective Optimization of a Tripod Parallel Mechanism for a Robotic Leg. Mechanisms and Machine Science, 2018, , 374-382.	0.5	2

#	ARTICLE	IF	CITATIONS
343	Challenges for Mechanism Design in Robotics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2019, , 1-8.	0.6	2
344	Path Planning in Complex Environments for Industrial Robots with Additional Degrees of Freedom. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2000, , 431-438.	0.6	2
345	Experimental Validation and Tests of Operation Characteristics of a Parallel-Serial Manipulator. , 2002, , 331-338.		2
346	An Optimum Path Planning for LARM Clutched Arm. , 2010, , 393-400.		2
347	Experimental Determination of Robot Workspace by Means of CATRASYS (Cassino Tracking System). CISM International Centre for Mechanical Sciences, Courses and Lectures, 2000, , 85-92.	0.6	2
348	Allievi Lorenzo (1856â€“1941). History of Mechanism and Machine Science, 2014, , 1-17.	0.2	2
349	A Workspace Analysis of RRP Manipulators. , 1996, , .		2
350	General Algorithm for Computing the Theoretical Centering Precision of the Gripping Devices. Mechanisms and Machine Science, 2017, , 15-21.	0.5	2
351	Design of a Methodology for the Determination of the Mechanical Rib Stiffness as Injury Index. Mechanisms and Machine Science, 2019, , 62-69.	0.5	2
352	5DOF Mechanism for Vertebral Surgery Kinematic Analysis and Velocity Calculation. Mechanisms and Machine Science, 2019, , 1741-1749.	0.5	2
353	Design and Development of the Cassino Biped Locomotor. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	2
354	On the IFToMM Permanent Commission for History of MMS. , 2004, , 11-26.		2
355	An Analysis of Respiration with the Smart Sensor SENSIRIB in Patients Undergoing Thoracic Surgery. Sensors, 2022, 22, 1561.	3.8	2
356	A Historical Account on Italian Mechanism Models. , 2022, 1, .		2
357	Wind power harvester based on an aerodynamic double pendulum. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 10025-10032.	2.1	2
358	A Study on Workspace Topologies of 3R Industrial-Type Manipulators. , 2006, , .		1
359	An Experimental Comparative Study on Non-Circular Gears and CAM Transmissions for a Blood Pumping System. , 2006, , 371.		1
360	Stiffness experimental monitoring for WL-16Rll Biped Locomotor during walking. , 2006, , 105-112.		1

#	ARTICLE	IF	CITATIONS
361	Simulating CALUMA (CAssino Low-cost hUMANoid) robot carrying a load. Applied Bionics and Biomechanics, 2007, 4, 1-8.	1.1	1
362	An experimental characterization of earthquake effects on mechanism operation. , 2008, , .		1
363	Problems and a Design Solution for An Underactuated Finger Mechanism. , 2008, , .		1
364	Optimality criteria for the design of manipulators. , 2008, , .		1
365	Machinery During the Industrial Revolution. History of Mechanism and Machine Science, 2009, , 141-168.	0.2	1
366	Design and simulation of a DSP controller for a LARM Hand. , 2010, , .		1
367	Feasible workspace regions for general two-revolute manipulator. Frontiers of Mechanical Engineering, 2011, 6, 397-408.	4.3	1
368	Message from IFToMM President, Prof. Marco Ceccarelli. Mechanism and Machine Theory, 2012, 52, 341-342.	4.5	1
369	Introduction to the special issue on the 2012 EUCOMES European Conference on Mechanism Science. Frontiers of Mechanical Engineering, 2013, 8, 1-2.	4.3	1
370	Design Methodology for a Compliant Binary Actuated Parallel Mechanism with Flexure Hinges. Mechanisms and Machine Science, 2013, , 171-179.	0.5	1
371	Vibration Control for Parallel Manipulator Based on the Feed Forward Control Strategy. , 2013, , .		1
372	Experimental experiences with a LARM tripod leg mechanism. , 2014, , .		1
373	Development and Simulation of an Automated Twistlock Handling Robot System. Mechanisms and Machine Science, 2015, , 145-153.	0.5	1
374	An Overview of the Ongoing Humanoid Robot Project LARMbot. Lecture Notes in Computer Science, 2016, , 53-64.	1.3	1
375	Experimental Inspiration and Rapid Prototyping of a Novel Humanoid Torso. Mechanisms and Machine Science, 2016, , 65-74.	0.5	1
376	Balancing of a 3-DOFs Parallel Manipulator. , 2016, , 173-191.		1
377	An Experimental Characterization of Human Knee Joint Motion Capabilities. Mechanisms and Machine Science, 2017, , 411-419.	0.5	1
378	Design and construction of a cycling-based wheelchair prototype. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
379	Design and Simulation of a Novel Hybrid Leg Mechanism for Walking Machines. Mechanisms and Machine Science, 2018, , 283-290.	0.5	1
380	Advances on the Development of a Robotic Hand with Movable Palm. Mechanisms and Machine Science, 2019, , 1997-2006.	0.5	1
381	Mechanism Design for Robotics. Robotics, 2019, 8, 30.	3.5	1
382	Development of LARMbot 2, A Novel Humanoid Robot with Parallel Architectures. Mechanisms and Machine Science, 2019, , 17-24.	0.5	1
383	Design of Dual-Arm Exoskeleton for Mirrored Upper Limb Rehabilitation. Mechanisms and Machine Science, 2019, , 303-311.	0.5	1
384	Design and Analysis of 2 DOF Elbow Prosthesis. Mechanisms and Machine Science, 2021, , 3-12.	0.5	1
385	Design and Operation of Humanoid Robots with Incipient Fall Detection. Proceedings of Higher Educational Institutions DœD°chine Building, 2021, , 11-15.	0.2	1
386	An Innovative Optimization Design Procedure for Mechatronic Systems with a Multi-Criteria Formulation. Applied Sciences (Switzerland), 2021, 11, 8900.	2.5	1
387	Design and simulation of a PK testbed for head impact evaluation. Robotica, 2022, 40, 1293-1308.	1.9	1
388	GRASPING SIMULATION OF AN UNDERACTUATED FINGER MECHANISM FOR LARM HAND. International Journal of Modelling and Simulation, 2010, 30, .	3.3	1
389	A Robotic System for Inspection and Repair of Small Diameter Pipelines. Nauka I Obrazovanie, 2015, 15, .	0.1	1
390	Stiffness Analysis and Experimental Validation for the 6-Dof Jaw Opening-Closing Training Parallel Robot WY-5 (Waseda Yamanashi 5). Journal of Robotics and Mechatronics, 2004, 16, 570-578.	1.0	1
391	History and Challenges of Mechanism and Machine Science within IFToMM Community. Studies in Computational Intelligence, 2009, , 469-488.	0.9	1
392	A Synthesis Algorithm of Three-Revolute Manipulators by Means of the Workspace Contour Algebraic Formulation. , 1992, , .		1
393	Step Design of a Cassino Tripod Leg Mechanism. Mechanisms and Machine Science, 2015, , 211-219.	0.5	1
394	A Workspace Analysis of 4R Manipulators via Level-Set Formulation. Mechanisms and Machine Science, 2017, , 483-491.	0.5	1
395	IFTToMM in MMS Developments. Mechanisms and Machine Science, 2017, , 3-13.	0.5	1
396	The MuseBot Project. Advances in Library and Information Science, 2017, , 45-66.	0.2	1

#	ARTICLE	IF	CITATIONS
397	Performance Analysis of the Automata in a Blossoming Flower Clock in the 18th Century. Mechanisms and Machine Science, 2018, , 1017-1024.	0.5	1
398	A Comparative Analysis of Teaching MMS at Politehnica University of Timișoara and University of Cassino and South Latium. Mechanisms and Machine Science, 2019, , 91-102.	0.5	1
399	Reconstruction and Analysis of Zhan's Sand Clock in the 14th Century. History of Mechanism and Machine Science, 2019, , 123-133.	0.2	1
400	Mechanisms in Heron's Automata as Technological Transfer and Cultural Means. History of Mechanism and Machine Science, 2019, , 175-186.	0.2	1
401	Design and Requirements for a Mobile Robot for Team Cooperation. Mechanisms and Machine Science, 2020, , 277-285.	0.5	1
402	Parallel Mechanism Designs for Humanoid Robots. Mechanisms and Machine Science, 2020, , 255-264.	0.5	1
403	A Wearable Device for Ankle Motion Assistance. Mechanisms and Machine Science, 2021, , 173-181.	0.5	1
404	Giovanni Bianchi (1924-2003). History of Mechanism and Machine Science, 2020, , 1-13.	0.2	1
405	The MuseBot Project. , 2020, , 1721-1743.		1
406	Cesare Rossi (1955-2017). History of Mechanism and Machine Science, 2020, , 115-125.	0.2	1
407	Design and Validation of Force Control Loops for a Parallel Manipulator. , 0, , 206-224.		1
408	Design and Performance of L-CaPaMan2. Applied Sciences (Switzerland), 2022, 12, 1380.	2.5	1
409	Design and Performance of a LARMbot PK Arm Prototype. International Journal of Humanoid Robotics, 2022, 19, .	1.1	1
410	NUMERICAL AND EXPERIMENTAL VALIDATION OF A RIB IMPLANT USING AN ARTIFICIAL RIB. Journal of Mechanics in Medicine and Biology, 2022, 22, .	0.7	1
411	A study of feasibility for rickshaw type mobile robot. , 0, , .		0
412	Simulation and optimization of an industrial automatic packing. , 0, , .		0
413	Design considerations for moving and rotating fingers in robotic hand. , 2008, , .		0
414	A comparison of simulations and experimental tests on operation performance of CaPaMan2 bis. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
415	Anonymous Developments. History of Mechanism and Machine Science, 2009, , 1-17.	0.2	0
416	Chinese Inventions and Machines. History of Mechanism and Machine Science, 2009, , 19-42.	0.2	0
417	Machines in the First Colonial Empires. History of Mechanism and Machine Science, 2009, , 117-139.	0.2	0
418	The Evolution and Development of Mechanical Engineering Through Large Cultural Areas. , 2009, , 69-82.		0
419	Kurt Hain - An Outstanding Personality in the Field of Applied Kinematics and the Accessibility to his Scientific Work. , 2009, , 45-58.		0
420	PCN15 STATIN USE AND THE RISK OF COLORECTAL CANCER: A POPULATION-BASED COHORT STUDY. Value in Health, 2010, 13, A26.	0.3	0
421	Workspace determination of a chameleon-like space service robot with planar configurations. , 2011, , .		0
422	Message from the IFToMM President. Mechanism and Machine Theory, 2011, 46, 575-576.	4.5	0
423	Shape and location design of supporting legs for a new Water Strider Robot. , 2011, , .		0
424	A low-cost control architecture for user-oriented service applications of Cassino parallel manipulator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 877-882.	0.4	0
425	Open Robot Control for Services in Construction. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 865-870.	0.4	0
426	Brief report on 2011 SIOMMS. Mechanism and Machine Theory, 2012, 48, 138-139.	4.5	0
427	Design constraints and features for a robotic system cutting pipelines in nuclear vessels. , 2014, , .		0
428	Giuseppe Antonio Borgnis and Significance of His Handbooks on Representation and Terminology of Machines. Mechanisms and Machine Science, 2014, , 301-308.	0.5	0
429	Alexander Golovin (1939â€“2013). Mechanism and Machine Theory, 2014, 74, 413-414.	4.5	0
430	Designing Bioinspired Robots Editorial. International Journal of Advanced Robotic Systems, 2015, 12, 151.	2.1	0
431	Service Robotics Special Issue (2014/2015) Editorial. International Journal of Advanced Robotic Systems, 2015, 12, 161.	2.1	0
432	Introduction to the special issue on the VIII Latin-American Congress on Mechanical Engineering. Frontiers of Mechanical Engineering, 2015, 10, 219-220.	4.3	0

#	ARTICLE	IF	CITATIONS
433	Message of the IFToMM president elected for the term 2016â€“2019. Mechanics Based Design of Structures and Machines, 2016, 44, 1-3.	4.7	0
434	A Cable-Pulley Transmission for Ankle Joint Actuation in Artificial Leg. Mechanisms and Machine Science, 2016, , 559-570.	0.5	0
435	Design and Simulation of an Underactuated Mechanism for Leg Exoskeleton. Mechanisms and Machine Science, 2018, , 181-190.	0.5	0
436	One-dimensional attitude control for BIT flying Robot. , 2019, , .		0
437	Modular Design Solutions of BIT Wheelchair for Motion Assistance. , 2019, , .		0
438	Celebrations for the 50-Year Anniversary of IFToMM. Journal of Vibration Engineering and Technologies, 2020, 8, 485-488.	2.2	0
439	Mechanism design for legged locomotion systems. , 2020, , 1-31.		0
440	Geared Designs from the Past for Today Inspiration. Mechanisms and Machine Science, 2021, , 243-254.	0.5	0
441	Design Criteria Study for Underactuated Symmetric Pinching Mechanism of Pinch Roll Machine in High-Speed Wire Rod Product Line. Mechanisms and Machine Science, 2021, , 113-121.	0.5	0
442	Cable-Driven Robots in Physical Rehabilitation. , 2021, , 255-290.		0
443	Design of a Cable-Driven Robot for Elbow and Wrist Rehabilitation. Mechanisms and Machine Science, 2021, , 167-175.	0.5	0
444	Design of a Flexible Interphalangeal Joint. Mechanisms and Machine Science, 2021, , 141-148.	0.5	0
445	Prototype and Testing of L-CaPaMan. Mechanisms and Machine Science, 2022, , 249-258.	0.5	0
446	Mechanism Designs for Solar Tracking. Mechanisms and Machine Science, 2022, , 241-249.	0.5	0
447	Historical and Technical Analysis of Harmonic Drive Gear Design. Mechanisms and Machine Science, 2022, , 46-55.	0.5	0
448	Design Improvements on a Carotid Blood Flow Measurement System. , 2009, , 283-290.		0
449	On Link Effects of Ring Workspace of Three-Revolute Manipulators. , 2010, , 285-298.		0
450	EXPERIMENTAL EVALUATION OF STIFFNESS PERFORMANCE FOR A BIPED WALKING VEHICLE WITH PARALLEL ARCHITECTURE. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
451	RING WORKSPACE TOPOLOGY OF THREE-REVOLUTE MANIPULATORS. International Journal of Modelling and Simulation, 2011, 31, .	3.3	0
452	Operation Simulation of a Robot for Space Applications. Lecture Notes in Computer Science, 2011, , 122-131.	1.3	0
453	A LEG DESIGN FOR A BIPED HUMANOID SERVICE ROBOT. , 2011, , .		0
454	Workspace Evaluation for Analysis and Synthesis of Manipulators. Mechanisms and Machine Science, 2012, , 289-301.	0.5	0
455	Integrating Intelligent Robot Services in Holonic Manufacturing. Studies in Computational Intelligence, 2012, , 75-88.	0.9	0
456	A Structural Synthesis of a New Leg Mechanism. Mechanisms and Machine Science, 2014, , 263-275.	0.5	0
457	Kinematic Analysis Validation and Calibration of a Haptic Interface. Mechanisms and Machine Science, 2014, , 375-381.	0.5	0
458	A Fairly Simple Mechanism Design for a Rural Water Pump. Mechanisms and Machine Science, 2014, , 261-268.	0.5	0
459	In memoriam of Alexander Golovin (1939â€“2013). Mechanical Sciences, 2014, 5, 15-16.	1.0	0
460	Experiences on Service Robots at LARM in Cassino. Mechanisms and Machine Science, 2014, , 331-343.	0.5	0
461	Characteristics of a Walking Simulator with Parallel Manipulators. Mechanisms and Machine Science, 2015, , 137-145.	0.5	0
462	Error modeling and parameter identification of a three degree-of-freedom parallel robot. , 2015, , .		0
463	Considerations on History of Mechanism and Machine Science with an IFToMM Role for Future Developments. Mechanisms and Machine Science, 2016, , 37-54.	0.5	0
464	Giuseppe Antonio Borgnis and His Handbook of Machine Designs. History of Mechanism and Machine Science, 2016, , 15-34.	0.2	0
465	On the Warship by Ansaldo for Chinese Imperial Navy. History of Mechanism and Machine Science, 2016, , 223-233.	0.2	0
466	Design, Construction and Testing of a Gripper for Horticulture Products. Advances in Intelligent Systems and Computing, 2017, , 119-127.	0.6	0
467	An Experimental Characterization of Roll Hemming Process. Mechanisms and Machine Science, 2018, , 367-378.	0.5	0
468	Experiences for a User-Friendly Operation of Cassino Hexapod III. Mechanisms and Machine Science, 2019, , 205-213.	0.5	0

#	ARTICLE	IF	CITATIONS
469	A Characterization of a Robotic Hand with Movable Palm. Mechanisms and Machine Science, 2019, , 118-125.	0.5	0
470	Numerical Simulation of a Leg Exoskeleton for Human Motion Assistance. Mechanisms and Machine Science, 2019, , 101-108.	0.5	0
471	A Study of Feasibility for a Design of a Metamorphic Artificial Hand. Mechanisms and Machine Science, 2019, , 283-290.	0.5	0
472	The Arsenal of Venice: The First "Industrial" Factory in History. Mechanisms and Machine Science, 2019, , 3-11.	0.5	0
473	Analysis and Reconstruction of a Platform with Ball Bearings in Roman Ships of Nemi Lake. History of Mechanism and Machine Science, 2019, , 187-198.	0.2	0
474	Reconstruction of an Ancient Blossoming Flower Automaton with a Circular-arc Cam. Mechanisms and Machine Science, 2019, , 1151-1160.	0.5	0
475	Comparison of Motion/Force Transmissibility in a 3-SPR Parallel Manipulator and a 6-SPS Equivalent Mechanism. Mechanisms and Machine Science, 2019, , 119-129.	0.5	0
476	Dynamic Characterization of a Two Degree of Freedom Planetary Gearbox During Varying Load Conditions. , 2019, , .		0
477	An Experimental Analysis of Vibrations During Walking in Humans and Robots. Mechanisms and Machine Science, 2021, , 635-643.	0.5	0
478	Design Formulation for a Multi-criteria Optimization of Mechatronic Systems. Mechanisms and Machine Science, 2021, , 849-860.	0.5	0
479	Design Experiences for Reconstruction of an Ancient Roman Crane. Mechanisms and Machine Science, 2021, , 37-45.	0.5	0
480	Design and Experimental Characterization of an Underactuated Finger Mechanism. Mechanisms and Machine Science, 2021, , 102-110.	0.5	0
481	Vibration Analysis of Gearboxes. Mechanisms and Machine Science, 2020, , 473-494.	0.5	0
482	Italian Contributions to RAAD. Mechanisms and Machine Science, 2020, , 325-333.	0.5	0
483	Design Issues for a Walking-Flying Robot. Lecture Notes in Mechanical Engineering, 2021, , 267-277.	0.4	0
484	Analysis and Comparison of Motion Capture Systems for Human Walking. Experimental Techniques, 2015, , n/a-n/a.	1.5	0
485	Computational Multi-Objective Optimization to Design Service Robots. , 2009, , 139-147.		0
486	Operation Safety of a 2-DoF Planar Mechanism for Arm Rehabilitation. Inventions, 2021, 6, 85.	2.5	0

#	ARTICLE	IF	CITATIONS
487	Traumatic Impact Assessment of CPR Load on a Human Ribcage. International Journal of Environmental Research and Public Health, 2022, 19, 3414.	2.6	0
488	Past Achievements and Future Challenges of Mechanism Design for Robotics. Mechanisms and Machine Science, 2022, , 3-9.	0.5	0
489	Shall we dance? A music-driven approach for mobile robots choreography. , 2011, , .		0
490	Design criteria study and simulation for underactuated symmetric pinching mechanism of pinch roll machine in high-speed wire rod product line. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622210953.	2.1	0
491	Workspace and performance analysis of a 6-DOF hexapod-type manipulator with a circular guide. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622210959.	2.1	0