Marco Ceccarelli

List of Publications by Year
in descending order

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491 papers	5,293 citations	126907 33 h-index	223800 46 g-index
561 all docs	561 docs citations	561 times ranked	2201 citing authors

#	Article	IF	Citations
1	Prototype and Testing of LARMbot PK Arm. Mechanisms and Machine Science, 2022, , 210-219.	0.5	2
2	Prototype and Testing of L-CaPaMan. Mechanisms and Machine Science, 2022, , 249-258.	0.5	0
3	Experiences in Leadership IFToMM: Achievements and Challenges. Mechanisms and Machine Science, 2022, , 3-16.	0.5	4
4	Design and simulation of a PK testbed for head impact evaluation. Robotica, 2022, 40, 1293-1308.	1.9	1
5	Mechanism Designs for Solar Tracking. Mechanisms and Machine Science, 2022, , 241-249.	0.5	0
6	Historical and Technical Analysis of Harmonic Drive Gear Design. Mechanisms and Machine Science, 2022, , 46-55.	0.5	0
7	Numerical and experimental performance estimation for a ExoFing - 2 DOFs finger exoskeleton. Robotica, 2022, 40, 1820-1832.	1.9	6
8	Experimental Validation of Light Cable-Driven Elbow-Assisting Device L-CADEL Design. Journal of Bionic Engineering, 2022, 19, 416-428.	5.0	7
9	Progress and Development Trend of Space Intelligent Robot Technology. Space: Science & Technology, 2022, 2022, .	2.5	22
10	Design and Performance of L-CaPaMan2. Applied Sciences (Switzerland), 2022, 12, 1380.	2.5	1
11	Recent Advances and Challenges in the IFToMM PC for History of MMS. History of Mechanism and Machine Science, 2022, , 10-23.	0.2	3
12	In Memory of Past PC Members. History of Mechanism and Machine Science, 2022, , 3-9.	0.2	3
13	Design of an Articulated Neck to Assess Impact Head-Neck Injuries. Life, 2022, 12, 313.	2.4	5
14	An Analysis of Respiration with the Smart Sensor SENSIRIB in Patients Undergoing Thoracic Surgery. Sensors, 2022, 22, 1561.	3.8	2
15	Control Design for CABLEankle, a Cable Driven Manipulator for Ankle Motion Assistance. Actuators, 2022, 11, 63.	2.3	9
16	Traumatic Impact Assessment of CPR Load on a Human Ribcage. International Journal of Environmental Research and Public Health, 2022, 19, 3414.	2.6	0
17	Requirements and Solutions for Motion Limb Assistance of COVID-19 Patients. Robotics, 2022, 11, 45.	3.5	4
18	Past Achievements and Future Challenges of Mechanism Design for Robotics. Mechanisms and Machine Science, 2022, , 3-9.	0.5	0

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19	Design and Performance of a Motion-Assisting Device for Ankle. Mechanisms and Machine Science, 2022, , 659-668.	0.5	3
20	A geometrical formulation for the workspace of parallel manipulators. Robotica, 2022, 40, 2581-2591.	1.9	4
21	Design of a Robot for Inspecting the Multishape Pipeline Systems. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4608-4618.	5.8	7
22	A Historical Account on Italian Mechanism Models. , 2022, 1, .		2
23	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
24	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
25	Design and Performance of a LARMbot PK Arm Prototype. International Journal of Humanoid Robotics, 2022, 19, .	1.1	1
26	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
27	NUMERICAL AND EXPERIMENTAL VALIDATION OF A RIB IMPLANT USING AN ARTIFICIAL RIB. Journal of Mechanics in Medicine and Biology, 2022, 22, .	0.7	1
28	Development and characterisation of a controllable adjustable knee joint mechanism. Mechanism and Machine Theory, 2021, 155, 104101.	4.5	15
29	Design and Analysis of 2 DOF Elbow Prosthesis. Mechanisms and Machine Science, 2021, , 3-12.	0.5	1
30	Geared Designs from the Past for Today Inspiration. Mechanisms and Machine Science, 2021, , 243-254.	0.5	0
31	Design and Operation of Humanoid Robots with Incipient Fall Detection. Proceedings of Higher Educational Institutions ÐœÐ°chine Building, 2021, , 11-15.	0.2	1
32	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
33	Driving Mechanism in Robotized Hospital Bed for Patients with COVID 19. Mechanisms and Machine Science, 2021, , 179-186.	0.5	2
34	An Experimental Characterization of TORVEastro, Cable-Driven Astronaut Robot. Robotics, 2021, 10, 21.	3.5	5
35	Cable-Driven Robots in Physical Rehabilitation. , 2021, , 255-290.		0
36	Design of a Cable-Driven Robot for Elbow and Wrist Rehabilitation. Mechanisms and Machine Science, 2021, , 167-175.	0.5	0

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37	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
38	Design of a Flexible Interphalangeal Joint. Mechanisms and Machine Science, 2021, , 141-148.	0.5	0
39	Kinematic Modelling and Motion Analysis of a Humanoid Torso Mechanism. Applied Sciences (Switzerland), 2021, 11, 2607.	2.5	7
40	Pipeline Inspection Tests Using a Biomimetic Robot. Biomimetics, 2021, 6, 17.	3.3	9
41	A prototype characterization of ExoFinger, a finger exoskeleton. International Journal of Advanced Robotic Systems, 2021, 18, 172988142110248.	2.1	8
42	Impact Device for Biomechanics of Human Head-Neck Injuries. Mathematical Problems in Engineering, 2021, 2021, 1-8.	1.1	3
43	Design and Experimental Characterization of L-CADEL v2, an Assistive Device for Elbow Motion. Sensors, 2021, 21, 5149.	3.8	8
44	Virtual and Physical Prototyping of Reconfigurable Parallel Mechanisms with Single Actuation. Applied Sciences (Switzerland), 2021, 11, 7158.	2.5	3
45	An Innovative Optimization Design Procedure for Mechatronic Systems with a Multi-Criteria Formulation. Applied Sciences (Switzerland), 2021, 11, 8900.	2.5	1
46	Design and Experimental Characterization of a Cable-Driven Elbow Assisting Device. Journal of Medical Devices, Transactions of the ASME, 2021, 15, .	0.7	7
47	Design and Operation Improvements for CADEL Cable-Driven Elbow Assisting Device. Mechanisms and Machine Science, 2021, , 503-511.	0.5	3
48	Experimental Characterization of a Cable-Driven Device for Elbow Motion Assistance. Mechanisms and Machine Science, 2021, , 71-78.	0.5	4
49	An Experimental Analysis of Vibrations During Walking in Humans and Robots. Mechanisms and Machine Science, 2021, , 635-643.	0.5	0
50	Design Formulation for a Multi-criteria Optimization of Mechatronic Systems. Mechanisms and Machine Science, 2021, , 849-860.	0.5	0
51	Design Experiences for Reconstruction of an Ancient Roman Crane. Mechanisms and Machine Science, 2021, , 37-45.	0.5	0
52	A Wearable Device for Ankle Motion Assistance. Mechanisms and Machine Science, 2021, , 173-181.	0.5	1
53	Design and Experimental Characterization of an Underactuated Finger Mechanism. Mechanisms and Machine Science, 2021, , 102-110.	0.5	0
54	Design Issues for a Walking-Flying Robot. Lecture Notes in Mechanical Engineering, 2021, , 267-277.	0.4	0

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55	Operation Safety of a 2-DoF Planar Mechanism for Arm Rehabilitation. Inventions, 2021, 6, 85.	2.5	0
56	Celebrations for the 50-Year Anniversary of IFToMM. Journal of Vibration Engineering and Technologies, 2020, 8, 485-488.	2.2	0
57	Mechanism design for legged locomotion systems. , 2020, , 1-31.		0
58	Combination of Hardware and Control to Reduce Humanoids Fall Damage. International Journal of Humanoid Robotics, 2020, 17, 2050002.	1.1	3
59	Parallel Architectures for Humanoid Robots. Robotics, 2020, 9, 75.	3.5	22
60	Analysis of a Wearable Robotic System for Ankle Rehabilitation. Machines, 2020, 8, 48.	2.2	36
61	A fairly simple mechatronic device for training human wrist motion. International Journal of Advanced Robotic Systems, 2020, 17, 172988142097428.	2.1	2
62	Design and Performance of an Elbow Assisting Mechanism. Machines, 2020, 8, 68.	2.2	19
63	NURSE-2 DoF Device for Arm Motion Guidance: Kinematic, Dynamic, and FEM Analysis. Applied Sciences (Switzerland), 2020, 10, 2139.	2.5	15
64	A Survey on Mechanical Solutions for Hybrid Mobile Robots. Robotics, 2020, 9, 32.	3.5	21
65	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
66	Design of a Two-DOFs Driving Mechanism for a Motion-Assisted Finger Exoskeleton. Applied Sciences (Switzerland), 2020, 10, 2619.	2.5	31
67	End-Term Message from the IFToMM President. Journal of Vibration Engineering and Technologies, 2020, 8, 381-389.	2.2	2
68	Design, Modeling and Experimentation of a Biomimetic Wall-climbing Robot for Multiple Surfaces. Journal of Bionic Engineering, 2020, 17, 523-538.	5.0	13
69	Design of arm exercises for rehabilitation assistance. Journal of Engineering Research, 2020, 8, 203-218.	0.7	16
70	Cable-Driven Robots in Physical Rehabilitation. Advances in Computational Intelligence and Robotics Book Series, 2020, , 52-96.	0.4	5
71	Design and Requirements for a Mobile Robot for Team Cooperation. Mechanisms and Machine Science, 2020, , 277-285.	0.5	1
72	Parallel Mechanism Designs for Humanoid Robots. Mechanisms and Machine Science, 2020, , 255-264.	0.5	1

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73	Giovanni Bianchi (1924â€“2003). History of Mechanism and Machine Science, 2020, , 1-13.	0.2	1
74	Vibration Analysis of Gearboxes. Mechanisms and Machine Science, 2020, , 473-494.	0.5	0
75	Prototype Design and Testing of TORVEastro, Cable-Driven Astronaut Robot. Mechanisms and Machine Science, 2020, , 448-455.	0.5	4
76	Design and Development of the Cassino Biped Locomotor. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	2
77	Francesco di Giorgio (1439â€“1501). History of Mechanism and Machine Science, 2020, , 47-66.	0.2	3
78	The MuseBot Project. , 2020, , 1721-1743.		1
79	Cesare Rossi (1955â€“2017). History of Mechanism and Machine Science, 2020, , 115-125.	0.2	1
80	Italian Contributions to RAAD. Mechanisms and Machine Science, 2020, , 325-333.	0.5	0
81	An Experimental Characterization of a Parallel Mechanism for Robotic Legs. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2019, , 18-25.	0.6	4
82	Experimental Characterization of the Coupling Stage of a Two-Stage Planetary Gearbox in Variable Operational Conditions. Machines, 2019, 7, 45.	2.2	2
83	Gait Transition Between Standing and Falling Down for a Humanoid Robot. Mechanisms and Machine Science, 2019, , 2501-2509.	0.5	3
84	Dynamics of a Humanoid Robot with Parallel Architectures. Mechanisms and Machine Science, 2019, , 1799-1808.	0.5	3
85	Celebrations for the 50-Year Anniversary of IFToMM. Machines, 2019, 7, 53.	2.2	3
86	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
87	Design and Feasibility Study of a Leg-exoskeleton Assistive Wheelchair Robot with Tests on Gluteus Medius Muscles. Sensors, 2019, 19, 548.	3.8	12
88	Advances on the Development of a Robotic Hand with Movable Palm. Mechanisms and Machine Science, 2019, , 1997-2006.	0.5	1
89	Effects of Voltage Dips on Robotic Grasping. Robotics, 2019, 8, 28.	3.5	4
90	Mechanism Design for Robotics. Robotics, 2019, 8, 30.	3.5	1

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91	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
92	One-dimensional attitude control for BIT flying Robot. , 2019, , .		0
93	Modular Design Solutions of BIT Wheelchair for Motion Assistance. , 2019, , .		0
94	Design and performance simulation of TORVEastro three-link astronaut robot. IOP Conference Series: Materials Science and Engineering, 2019, 659, 012010.	0.6	3
95	Development of LARMbot 2, A Novel Humanoid Robot with Parallel Architectures. Mechanisms and Machine Science, 2019, , 17-24.	0.5	1
96	Underactuated Elements Design Criterion for Envelop Gripper Mechanism. Mechanisms and Machine Science, 2019, , 432-442.	0.5	3
97	Design of Dual-Arm Exoskeleton for Mirrored Upper Limb Rehabilitation. Mechanisms and Machine Science, 2019, , 303-311.	0.5	1
98	Redesign and Construction of a Low-Cost CaPaMan Prototype. Mechanisms and Machine Science, 2019, , 158-165.	0.5	2
99	Experimental Dynamic Tests of Rib Implants. Mechanisms and Machine Science, 2019, , 353-361.	0.5	8
100	Experimental characterization of an osteosynthesis implant. Mechanisms and Machine Science, 2019, , 53-62.	0.5	10
101	Design and experience of a test-bed for gearboxes. Mechanisms and Machine Science, 2019, , 967-976.	0.5	5
102	Challenges for Mechanism Design in Robotics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2019, , 1-8.	0.6	2
103	Design and Experiences of a Planetary Gear Box for Adaptive Drives. Mechanisms and Machine Science, 2019, , 284-291.	0.5	3
104	Experiences for a User-Friendly Operation of Cassino Hexapod III. Mechanisms and Machine Science, 2019, , 205-213.	0.5	0
105	A Characterization of a Robotic Hand with Movable Palm. Mechanisms and Machine Science, 2019, , 118-125.	0.5	0
106	Numerical Simulation of a Leg Exoskeleton for Human Motion Assistance. Mechanisms and Machine Science, 2019, , 101-108.	0.5	0
107	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
108	A Comparative Analysis of Teaching MMS at Politehnica University of TimiÅŸoara and University of Cassino and South Latium. Mechanisms and Machine Science, 2019, , 91-102.	0.5	1

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109	A Study of Feasibility for a Design of a Metamorphic Artificial Hand. Mechanisms and Machine Science, 2019, , 283-290.	0.5	0
110	The Arsenal of Venice: The First â€œIndustrialâ€•Factory in History. Mechanisms and Machine Science, 2019, , 3-11.	0.5	0
111	Reconstruction and Analysis of Zhanâ€™s Sand Clock in the 14th Century. History of Mechanism and Machine Science, 2019, , 123-133.	0.2	1
112	Mechanisms in Heronâ€™s Automata as Technological Transfer and Cultural Means. History of Mechanism and Machine Science, 2019, , 175-186.	0.2	1
113	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
114	5DOF Mechanism for Vertebral Surgery Kinematic Analysis and Velocity Calculation. Mechanisms and Machine Science, 2019, , 1741-1749.	0.5	2
115	Reconstruction of an Ancient Blossoming Flower Automaton with a Circular-arc Cam. Mechanisms and Machine Science, 2019, , 1151-1160.	0.5	0
116	Ball Bearings from Roman Imperial Ships of Nemilake. Advances in Historical Studies, 2019, 08, 115-130.	0.1	3
117	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
118	Dynamic Characterization of a Two Degree of Freedom Planetary Gearbox During Varying Load Conditions. , 2019, , .		0
119	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
120	A Dynamic Compensation for Roll Hemming Process. IEEE Access, 2018, 6, 18264-18275.	4.2	4
121	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
122	Innovation challenges for Mechanism Design. Mechanism and Machine Theory, 2018, 125, 94-100.	4.5	11
123	Design and Construction of a Demonstrative HeritageBot Platform. Mechanisms and Machine Science, 2018, , 355-362.	0.5	5
124	A historical study and mechanical classification of ancient music-playing automata. Mechanism and Machine Theory, 2018, 121, 273-285.	4.5	5
125	A Falling Motion Strategy for Humanoids Based on Motion Primitives of Human Falling. Mechanisms and Machine Science, 2018, , 264-272.	0.5	3
126	HeritageBot platform for service in Cultural Heritage frames. International Journal of Advanced Robotic Systems, 2018, 15, 172988141879069.	2.1	19

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127	Fall Protection of Humanoids Inspired by Human Fall Motion. , 2018, , .		3
128	Advances in the Mechanical Design of Robots. Inventions, 2018, 3, 10.	2.5	2
129	Design and Experiments of a Novel Humanoid Robot with Parallel Architectures. Robotics, 2018, 7, 79.	3.5	27
130	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
131	Prototype Design and Performance Tests of Beijingâ€™s Astronaut Robot. Applied Sciences (Switzerland), 2018, 8, 1342.	2.5	9
132	Experimental Characterization of NURSE, a Device for Arm Motion Guidance. Journal of Healthcare Engineering, 2018, 2018, 1-15.	1.9	6
133	Design and Simulation of an Underactuated Mechanism for Leg Exoskeleton. Mechanisms and Machine Science, 2018, , 181-190.	0.5	0
134	Design and Simulation of a Novel Hybrid Leg Mechanism for Walking Machines. Mechanisms and Machine Science, 2018, , 283-290.	0.5	1
135	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
136	Experimental characterization of assisted human arm exercises. , 2018, , .		4
137	Grasp configuration planning for a low-cost and easy-operation underactuated three-fingered robot hand. Mechanism and Machine Theory, 2018, 129, 51-69.	4.5	40
138	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
139	Kinematic Design of a Parallel Robot for Elbow and Wrist Rehabilitation. Mechanisms and Machine Science, 2018, , 147-154.	0.5	3
140	Kinematic Design of a Tripod Parallel Mechanism for Robotic Legs. Mechanisms and Machine Science, 2018, , 121-130.	0.5	8
141	Multi-objective Optimization of a Tripod Parallel Mechanism for a Robotic Leg. Mechanisms and Machine Science, 2018, , 374-382.	0.5	2
142	Design and Lab Tests of a Scaled Leg Exoskeleton with Electric Actuators. Mechanisms and Machine Science, 2018, , 719-726.	0.5	3
143	Design Optimization of a Cable-Driven Parallel Robot in Upper Arm Training-Rehabilitation Processes. Mechanisms and Machine Science, 2018, , 413-423.	0.5	10
144	Kinematic Analysis of an Exoskeleton-Based Robot for Elbow and Wrist Rehabilitation. Mechanisms and Machine Science, 2018, , 424-433.	0.5	8

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145	Performance Analysis of the Automata in a Blossoming Flower Clock in the 18th Century. Mechanisms and Machine Science, 2018, , 1017-1024.	0.5	1
146	An Experimental Characterization of Roll Hemming Process. Mechanisms and Machine Science, 2018, , 367-378.	0.5	0
147	Experimental Evaluation of Artificial Human Ribs. Mechanisms and Machine Science, 2018, , 434-443.	0.5	3
148	An experimental validation of a novel humanoid torso. Robotics and Autonomous Systems, 2017, 91, 299-313.	5.1	20
149	HeritageBot Service Robot assisting in Cultural Heritage. , 2017, , .		11
150	Design and simulation of an underactuated finger mechanism for LARM Hand. Robotica, 2017, 35, 483-497.	1.9	18
151	Prototype and Testing of HeritageBot Platform for Service in Cultural Heritage. , 2017, , 103-112.		3
152	Kinematic Analysis of a Continuum Parallel Robot. Mechanisms and Machine Science, 2017, , 173-180.	0.5	3
153	Design and test of a gripper prototype for horticulture products. Robotics and Computer-Integrated Manufacturing, 2017, 44, 266-275.	9.9	44
154	An Experimental Characterization of Human Knee Joint Motion Capabilities. Mechanisms and Machine Science, 2017, , 411-419.	0.5	1
155	Design and construction of a cycling-based wheelchair prototype. , 2017, , .		1
156	Design and simulation of leg exoskeleton cycling-actuated wheelchair. International Journal of Advanced Robotic Systems, 2017, 14, 172988141774173.	2.1	11
157	Applied Mathematics to Mobile Robotics and Their Applications. Mathematical Problems in Engineering, 2017, 2017, 1-2.	1.1	2
158	Requirements and Constraints for a Robotized Roll Hemming Solution. Advances in Intelligent Systems and Computing, 2017, , 244-251.	0.6	3
159	Mechanical Design of a Prosthetic Human Arm and its Dynamic Simulation. Advances in Intelligent Systems and Computing, 2017, , 482-490.	0.6	6
160	LARM Bot Humanoid Design Towards a Prototype. MOJ Applied Bionics and Biomechanics, 2017, 1, .	0.3	15
161	An experimental characterization of human falling down. Mechanical Sciences, 2017, 8, 79-89.	1.0	11
162	A Workspace Analysis of 4R Manipulators via Level-Set Formulation. Mechanisms and Machine Science, 2017, , 483-491.	0.5	1

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163	General Algorithm for Computing the Theoretical Centering Precision of the Gripping Devices. Mechanisms and Machine Science, 2017, , 15-21.	0.5	2
164	IFToMM in MMS Developments. Mechanisms and Machine Science, 2017, , 3-13.	0.5	1
165	Design, Construction and Testing of a Gripper for Horticulture Products. Advances in Intelligent Systems and Computing, 2017, , 119-127.	0.6	0
166	The MuseBot Project. Advances in Library and Information Science, 2017, , 45-66.	0.2	1
167	Design and Simulation of a Cable-Driven Vertebra-Based Humanoid Torso. International Journal of Humanoid Robotics, 2016, 13, 1650015.	1.1	19
168	LARMbot: A New Humanoid Robot with Parallel Mechanisms. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 275-283.	0.6	12
169	A master-slave control system for lower limb rehabilitation robot with pedal-actuated exoskeleton. , 2016, , .		3
170	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
171	Design and simulation of a cable-pulley-based transmission for artificial ankle joints. Frontiers of Mechanical Engineering, 2016, 11, 170-183.	4.3	4
172	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
173	A generic walking pattern generation method for humanoid robot walking on the slopes. Industrial Robot, 2016, 43, 317-327.	2.1	3
174	Analysis and Comparison of Motion Capture Systems for Human Walking. Experimental Techniques, 2016, 40, 875-883.	1.5	5
175	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
176	Design and Characterization of a Novel Knee Articulation Mechanism. International Journal of Applied Mechanics and Engineering, 2016, 21, 611-622.	0.7	15
177	Adaptive fuzzy sliding mode control for redundant manipulators with varying payload. Industrial Robot, 2016, 43, 665-676.	2.1	8
178	Innovation of MMS with Inspiration from the Past. International Journal of Applied Mechanics and Engineering, 2016, 21, IX-XXII.	0.7	2
179	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
180	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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181	An Overview of the Ongoing Humanoid Robot Project LARMbot. Lecture Notes in Computer Science, 2016, , 53-64.	1.3	1
182	Experimental Inspiration and Rapid Prototyping of a Novel Humanoid Torso. Mechanisms and Machine Science, 2016, , 65-74.	0.5	1
183	Balancing of a 3-DOFs Parallel Manipulator. , 2016, , 173-191.		1
184	Design and Kinematic Analysis of a Novel Metamorphic Mechanism for Lower Limb Rehabilitation. Mechanisms and Machine Science, 2016, , 545-558.	0.5	8
185	Motion planning for humanoid robot dynamically stepping over consecutive large obstacles. Industrial Robot, 2016, 43, 204-220.	2.1	6
186	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
187	A Cable-Pulley Transmission for Ankle Joint Actuation in Artificial Leg. Mechanisms and Machine Science, 2016, , 559-570.	0.5	0
188	How to Use 3D Printing for Feasibility Check of Mechanism Design. Advances in Intelligent Systems and Computing, 2016, , 307-315.	0.6	6
189	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
190	Science, Technology and Industry in Southern Italy Before the Unification. History of Mechanism and Machine Science, 2016, , 159-179.	0.2	3
191	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
192	Giuseppe Antonio Borgnis and His Handbook of Machine Designs. History of Mechanism and Machine Science, 2016, , 15-34.	0.2	0
193	On the Warship by Ansaldo for Chinese Imperial Navy. History of Mechanism and Machine Science, 2016, , 223-233.	0.2	0
194	Design and simulated characteristics of a new biped mechanism. Robotica, 2015, 33, 1568-1588.	1.9	13
195	A falling motion control of humanoid robots based on biomechanical evaluation of falling down of humans. , 2015, , .		10
196	A Robotic Solution for the Restoration of Fresco Paintings. International Journal of Advanced Robotic Systems, 2015, 12, 160.	2.1	3
197	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
198	Designing Bioinspired Robots Editorial. International Journal of Advanced Robotic Systems, 2015, 12, 151.	2.1	0

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199	Service Robotics Special Issue (2014/2015) Editorial. International Journal of Advanced Robotic Systems, 2015, 12, 161.	2.1	0
200	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
201	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
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