

Marco Ceccarelli

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L-index

#	Paper	IF	Citations
496	Fundamentals of Mechanics of Robotic Manipulation 2004 ,		174
495	A stiffness analysis for CaPaMan (Cassino Parallel Manipulator). <i>Mechanism and Machine Theory</i> , 2002 , 37, 427-439	4	113
494	Designing an underactuated mechanism for a 1 active DOF finger operation. <i>Mechanism and Machine Theory</i> , 2009 , 44, 336-348	4	95
493	A new 3 D.O.F. spatial parallel mechanism. <i>Mechanism and Machine Theory</i> , 1997 , 32, 895-902	4	75
492	A multi-objective optimum design of general 3R manipulators for prescribed workspace limits. <i>Mechanism and Machine Theory</i> , 2004 , 39, 119-132	4	67
491	A formulation for the workspace boundary of general N-revolute manipulators. <i>Mechanism and Machine Theory</i> , 1996 , 31, 637-646	4	66
490	Numerical and experimental analysis of non-circular gears and cam-follower systems as function generators. <i>Mechanism and Machine Theory</i> , 2008 , 43, 996-1008	4	59
489	Optimal design of CaPaMan (Cassino Parallel Manipulator) with a specified orientation workspace. <i>Robotica</i> , 2002 , 20, 159-166	2.1	58
488	Collision free path-planning for cable-driven parallel robots. <i>Robotics and Autonomous Systems</i> , 2009 , 57, 1083-1093	3.5	57
487	Optimal design of driving mechanism in a 1-DOF anthropomorphic finger. <i>Mechanism and Machine Theory</i> , 2006 , 41, 897-911	4	49
486	A Fairly General Algorithm to Evaluate Workspace Characteristics of Serial and Parallel Manipulators # #Communicated by S. Velinsky. View all notes. <i>Mechanics Based Design of Structures and Machines</i> , 2008 , 36, 14-33	1.7	48
485	Design and simulation of a waist-trunk system for a humanoid robot. <i>Mechanism and Machine Theory</i> , 2012 , 53, 50-65	4	47
484	A Synthesis Algorithm for Three-Revolute Manipulators by Using an Algebraic Formulation of Workspace Boundary. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 1995 , 117, 298-302	3	45
483	Kinematic analysis and multi-objective optimization of a 3-UPR parallel mechanism for a robotic leg. <i>Mechanism and Machine Theory</i> , 2018 , 120, 192-202	4	42
482	Comparison of indices for stiffness performance evaluation. <i>Frontiers of Mechanical Engineering in China</i> , 2010 , 5, 270-278		42
481	A novel articulated mechanism mimicking the motion of index fingers. <i>Robotica</i> , 2002 , 20, 13-22	2.1	42
480	A stiffness analysis for a hybrid parallel-serial manipulator. <i>Robotica</i> , 2004 , 22, 567-576	2.1	36

479	Legged Robotic Systems 2005 ,		36
478	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	1.7	33
477	An optimum robot path planning with payload constraints. <i>Robotica</i> , 2002 , 20, 395-404	2.1	33
476	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	32
475	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 ¹⁻³		31
474	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	31
473	CATRASY (Cassino Tracking System): A Wire System for Experimental Evaluation of Robot Workspace. <i>Journal of Robotics and Mechatronics</i> , 2002 , 14, 78-87	0.7	31
472	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	30
471	A Serial-parallel robotic architecture for surgical tasks. <i>Robotica</i> , 2005 , 23, 345-354	2.1	30
470	Design and test of a gripper prototype for horticulture products. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 44, 266-275	9.2	29
469	Operation analysis of a Chebyshev-Pantograph leg mechanism for a single DOF biped robot. <i>Frontiers of Mechanical Engineering</i> , 2012 , 7, 357-370	3.3	29
468	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	29
467	On the Workspace of General 4R Manipulators. <i>International Journal of Robotics Research</i> , 1995 , 14, 152-160	3.6	29
466	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	28
465	Identification of the Workspace Boundary Of a General 3-R Manipulator. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2006 , 128, 236-242	3	28
464	Designing a robotic gripper for harvesting horticulture products. <i>Robotica</i> , 2000 , 18, 105-111	2.1	28
463	Problems and Issues for Service Robots in New Applications. <i>International Journal of Social Robotics</i> , 2011 , 3, 299-312	4	26
462	An experimental characterization of human torso motion. <i>Frontiers of Mechanical Engineering</i> , 2015 , 10, 311-325	3.3	25

461	Design and tests of a three finger hand with 1-DOF articulated fingers. <i>Robotica</i> , 2006 , 24, 183-196	2.1	25
460	Design and numerical characterization of a new leg exoskeleton for motion assistance. <i>Robotica</i> , 2015 , 33, 1147-1162	2.1	24
459	Characterization of a Cable-Based Parallel Mechanism for Measurement Purposes#. <i>Mechanics Based Design of Structures and Machines</i> , 2010 , 38, 25-49	1.7	24
458	Regulation and control of LARM Hand III. <i>Robotics and Computer-Integrated Manufacturing</i> , 2010 , 26, 202-211	9.2	24
457	Performance analysis of a 3-2-1 pose estimation device 2005 , 21, 288-297		24
456	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	23
455	Experimental Tests on Feasible Operation of a Finger Mechanism in the LARM Hand # #Communicated by S. Velinsky View all notes. <i>Mechanics Based Design of Structures and Machines</i> , 2008 , 36, 1-13	1.7	22
454	An optimum path planning for Cassino Parallel Manipulator by using inverse dynamics. <i>Robotica</i> , 2008 , 26, 229-239	2.1	22
453	Design Considerations for Underactuated Grasp with a one D.O.F. Anthropomorphic Finger Mechanism 2006 ,		22
452	A Closed-Form Formulation for the Inverse Dynamics of a Cassino Parallel Manipulator. <i>Multibody System Dynamics</i> , 2001 , 5, 185-210	2.8	22
451	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	22
450	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	2.1	21
449	Stiffness analysis of biped humanoid robot WABIAN-RIV. <i>Mechanism and Machine Theory</i> , 2006 , 41, 17-40		21
448	Analysis of a Wearable Robotic System for Ankle Rehabilitation. <i>Machines</i> , 2020 , 8, 48	2.9	21
447	A Study of Feasibility for a Limb Exercising Device. <i>Mechanisms and Machine Science</i> , 2017 , 11-21	0.3	20
446	Numerical and experimental characterization of singularities of a six-wire parallel architecture. <i>Robotica</i> , 2006 , 25, 315-324	2.1	20
445	Application of a 3-DOF parallel manipulator for earthquake simulations. <i>IEEE/ASME Transactions on Mechatronics</i> , 2006 , 11, 241-246	5.5	20
444	Experimental Stiffness Measurement of WL-16RII Biped Walking Vehicle During Walking Operation. <i>Journal of Robotics and Mechatronics</i> , 2007 , 19, 272-280	0.7	20

443	Design improvements and control of a hybrid walking robot. <i>Robotics and Autonomous Systems</i> , 2011 , 59, 128-141	3.5	19
442	A Low-Cost Easy-Operation Hexapod Walking Machine. <i>International Journal of Advanced Robotic Systems</i> , 2008 , 5, 21	1.4	19
441	Mechanism Schemes in Teaching: A Historical Overview. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 1998 , 120, 533-541	3	19
440	An experimental validation of a novel humanoid torso. <i>Robotics and Autonomous Systems</i> , 2017 , 91, 299-313	3.5	18
439	Design of a Two-DOFs Driving Mechanism for a Motion-Assisted Finger Exoskeleton. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2619	2.6	18
438	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	3.3	18
437	An application of CaTraSys, a cable-based parallel measuring system for an experimental characterization of human walking. <i>Robotica</i> , 2010 , 28, 119-133	2.1	18
436	Effect of basic numerical parameters on a path planning of robots taking into account actuating energy. <i>Mechanism and Machine Theory</i> , 2004 , 39, 247-260	4	18
435	A workspace evaluation of an eclipse robot. <i>Robotica</i> , 2002 , 20, 299-313	2.1	18
434	Robotic teachers' assistants - Low cost robots for research and teaching activities. <i>IEEE Robotics and Automation Magazine</i> , 2003 , 10, 37-45	3.4	17
433	A Historical Perspective of Robotics Toward the Future. <i>Journal of Robotics and Mechatronics</i> , 2001 , 13, 299-313	0.7	17
432	A short account of history of IFToMM and its role in MMS. <i>Mechanism and Machine Theory</i> , 2015 , 89, 75-94		16
431	Analysis and optimal design of an underactuated finger mechanism for LARM hand. <i>Frontiers of Mechanical Engineering</i> , 2011 , 6, 332	3.3	16
430	Operation Strategy for a Low-Cost Easy-Operation Cassino Hexapod. <i>Applied Bionics and Biomechanics</i> , 2007 , 4, 149-156	1.6	16
429	An analytical design for three circular-arc cams. <i>Mechanism and Machine Theory</i> , 2002 , 37, 915-924	4	16
428	A formulation for path planning of manipulators in complex environments by using adjacent configurations. <i>Advanced Robotics</i> , 1996 , 11, 33-56	1.7	16
427	A unified dynamic control method for a redundant dual arm robot. <i>Journal of Bionic Engineering</i> , 2015 , 12, 361-371	2.7	15
426	Walking programming for an electropneumatic biped robot. <i>Mechatronics</i> , 1999 , 9, 941-964	3	15

425	Design and Simulation of a Cable-Driven Vertebra-Based Humanoid Torso. <i>International Journal of Humanoid Robotics</i> , 2016 , 13, 1650015	1.2	15
424	Historical Evolution of the Classification of Mechanisms 2004 , 285-302		15
423	Design and simulation of an underactuated finger mechanism for LARM Hand. <i>Robotica</i> , 2017 , 35, 483-497	1.1	14
422	Water Dancer II-A: A Non-Tethered Telecontrollable Water Strider Robot. <i>International Journal of Advanced Robotic Systems</i> , 2011 , 8, 39	1.4	14
421	Distinguished Figures in Mechanism and Machine Science 2007 ,		14
420	A kinematic characterization of human walking by using CaTraSys. <i>Mechanism and Machine Theory</i> , 2015 , 86, 125-139	4	13
419	Force transmission and constraint analysis of a 3-SPR parallel manipulator. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018 , 232, 4399-4409	1.3	13
418	An Experimental Analysis of Overcoming Obstacle in Human Walking. <i>Journal of Bionic Engineering</i> , 2014 , 11, 497-505	2.7	13
417	Application of Counter-Rotary Counterweights to the Dynamic Balancing of a Spatial Parallel Manipulator. <i>Applied Mechanics and Materials</i> , 2012 , 162, 224-233	0.3	13
416	A Biped Walking Mechanism for a Rickshaw Robot#. <i>Mechanics Based Design of Structures and Machines</i> , 2010 , 38, 227-242	1.7	13
415	Analysis and design for changing finger posture in a robotic hand. <i>Mechanism and Machine Theory</i> , 2010 , 45, 828-843	4	13
414	A 4R cable-based parallel manipulator for an application in hospital environment 2007 ,		13
413	Early TMM in Le Mecaniche by Galileo Galilei in 1593. <i>Mechanism and Machine Theory</i> , 2006 , 41, 1401-1406	0.6	13
412	LARM Bot Humanoid Design Towards a Prototype. <i>MOJ Applied Bionics and Biomechanics</i> , 2017 , 1,	0	13
411	Design and Experiments of a Novel Humanoid Robot with Parallel Architectures. <i>Robotics</i> , 2018 , 7, 79	2.8	13
410	New Assistive Device for People with Motor Disabilities. <i>Applied Mechanics and Materials</i> , 2015 , 772, 574-579	0.3	12
409	Towards a safety index for assessing head injury potential in service robotics. <i>Advanced Robotics</i> , 2013 , 27, 831-844	1.7	12
408	A Brief Illustrated History of Machines and Mechanisms. <i>History of Mechanism and Machine Science</i> , 2010 ,	0.1	12

407	Singularity analysis of CaPaMan: A three-degree of freedom spatial parallel manipulator		12
406	Trends in the drawing of mechanisms since the early Middle Ages. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2001 , 215, 269-289	1.3	12
405	Approximate four-bar circle-tracing mechanisms: classical and new synthesis. <i>Mechanism and Machine Theory</i> , 2000 , 35, 1579-1599	4	12
404	The Effects of Design Parameters on the Workspace of a Turin Parallel Robot. <i>International Journal of Robotics Research</i> , 1998 , 17, 886-902	5.7	12
403	Optimal design of 3R manipulators by using classical techniques and simulated annealin. <i>Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences</i> , 2002 , 24, 293-301		12
402	Design of arm exercises for rehabilitation assistance. <i>Journal of Engineering Research</i> , 2020 , 8, 203-218	2	12
401	Service Robots and Robotics 2012 ,		12
400	Service Robots for Restoration of Goods of Cultural Heritage 2012 , 213-228		12
399	Experimental tests on operation performance of a LARM leg mechanism with 3-DOF parallel architecture. <i>Mechanical Sciences</i> , 2015 , 6, 1-8	1.3	12
398	Design and Simulation of Walking Operation of a Cassino Biped Locomotor. <i>Mechanisms and Machine Science</i> , 2015 , 613-621	0.3	12
397	HeritageBot platform for service in Cultural Heritage frames. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 172988141879069	1.4	12
396	Design and Performance of an Elbow Assisting Mechanism. <i>Machines</i> , 2020 , 8, 68	2.9	11
395	NURSE-2 DoF Device for Arm Motion Guidance: Kinematic, Dynamic, and FEM Analysis. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2139	2.6	11
394	Cassino Hexapod : Experiences and new leg design 2010 ,		11
393	A Methodology for the Design of Robotic Hands with Multiple Fingers. <i>International Journal of Advanced Robotic Systems</i> , 2008 , 5, 22	1.4	11
392	A Low-Cost Easy Operation 4-Cable Driven Parallel Manipulator		11
391	Kinematic and Dynamic Analyses of a Pantograph-Leg for a Biped Walking Machine 2005 , 561-568		11
390	Uncertainty Model and Singularities of 3-2-1 Wire-Based Tracking Systems 2002 , 107-116		11

389	Climbing stairs with EP-WAR2 biped robot		11
388	Application of Robots for Inspection and Restoration of Historical Sites 2005 ,		11
387	Parallel Architectures for Humanoid Robots. <i>Robotics</i> , 2020 , 9, 75	2.8	11
386	Design and Characterization of a Novel Knee Articulation Mechanism. <i>International Journal of Applied Mechanics and Engineering</i> , 2016 , 21, 611-622	0.6	11
385	HeritageBot Service Robot assisting in Cultural Heritage 2017 ,		10
384	Master-Slave Control of an Intention-Actuated Exoskeletal Robot for Locomotion and Lower Extremity Rehabilitation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018 , 19, 983-991	1.7	10
383	Design and Simulation of a Leg Exoskeleton Linkage for a Human Rehabilitation System. <i>Mechanisms and Machine Science</i> , 2014 , 117-125	0.3	10
382	Position and Force Control of a Parallel Robot Capaman 2 Bis Parallel Robot for Drilling Tasks 2009 ,		10
381	An optimum synthesis for gripping mechanisms by using natural coordinates. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2002 , 216, 643-653	1.3	10
380	Experimental Characterization of Operation of a Waist-Trunk System with Parallel Manipulators. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2011 , 24, 713	2.5	10
379	Design of a Cable-Driven Device for Elbow Rehabilitation and Exercise. <i>Mechanisms and Machine Science</i> , 2019 , 61-68	0.3	9
378	Design and Characterization of a New Planetary Gear Box. <i>Mechanisms and Machine Science</i> , 2014 , 91-98	0.3	9
377	Design and simulated characteristics of a new biped mechanism. <i>Robotica</i> , 2015 , 33, 1568-1588	2.1	9
376	Topology search of 3-DOF translational parallel manipulators with three identical limbs for leg mechanisms. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2015 , 28, 666-675	2.5	9
375	Design of LARM hand: Problems and solutions 2008 ,		9
374	Workspace Topologies of Industrial 3R Manipulators. <i>International Journal of Advanced Robotic Systems</i> , 2007 , 4, 38	1.4	9
373	International Symposium on History of Machines and Mechanisms 2004 ,		9
372	Dynamic performance of CaPaMan by numerical simulations. <i>Mechanism and Machine Theory</i> , 2002 , 37, 241-266	4	9

371	Grasp force control in two-finger grippers with pneumatic actuation		9
370	Experimental Results of a 3-DOF Parallel Manipulator as an Earthquake Motion Simulator 2004 ,		9
369	LARMbot: A New Humanoid Robot with Parallel Mechanisms. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 275-283	0.6	9
368	A feasibility study on the design and walking operation of a biped locomotor via dynamic simulation. <i>Frontiers of Mechanical Engineering</i> , 2016 , 11, 144-158	3.3	8
367	Conceptual Kinematic Design and Performance Evaluation of a Chameleon-Like Service Robot for Space Stations. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 17	1.4	8
366	LARM PKM solutions for torso design in humanoid robots. <i>Frontiers of Mechanical Engineering</i> , 2014 , 9, 308-316	3.3	8
365	Burmester and Allievi: A Theory and Its Application for Mechanism Design at the End of 19th Century. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2008 , 130, 072301	3	8
364	Designing Two-Revolute Manipulators for Prescribed Feasible Workspace Regions. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2002 , 124, 427-434	3	8
363	AN ALGEBRAIC FORMULATION AND EXPERIMENTAL ANALYSIS OF TWO CIRCULAR-ARC CAMS. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2001 , 25, 29-49	1.1	8
362	Optimal synthesis of three-revolute manipulators. <i>Meccanica</i> , 1994 , 29, 95-103	2.1	8
361	DESIGN AND PROBLEMS OF A NEW LEG-WHEEL WALKING ROBOT 2007 ,		8
360	Design Considerations for an Underactuated Robotic Finger Mechanism. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2009 , 22, 475	2.5	8
359	Experimental characterization of an osteosynthesis implant. <i>Mechanisms and Machine Science</i> , 2019 , 53-62	0.3	8
358	Problems and Experiences on Cable-Based Service Robots for Physiotherapy Applications. <i>Mechanisms and Machine Science</i> , 2014 , 27-42	0.3	8
357	Kinematics of a 6 DOFs Manipulator with Interchangeable Translation and Rotation Motions. <i>Mechanisms and Machine Science</i> , 2015 , 407-416	0.3	7
356	A Survey on Mechanical Solutions for Hybrid Mobile Robots. <i>Robotics</i> , 2020 , 9, 32	2.8	7
355	Multi-objective optimization of a parallel manipulator for the design of a prosthetic arm using genetic algorithms. <i>Latin American Journal of Solids and Structures</i> , 2018 , 15,	1.4	7
354	Design and simulation of leg exoskeleton cycling-actuated wheelchair. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141774173	1.4	7

353	A Performance Analysis of a 4 Cable-Driven Parallel Manipulator 2006 ,		7
352	Workspace analysis and performance of a binary actuated parallel manipulator with flexural joints. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003 , 217, 313-330	1.3	7
351	Stiffness analysis of the humanoid robot WABIAN-RIV: modelling		7
350	Stiffness performance estimation for biped locomotor WL-15		7
349	Descending stairs with EP-WAR3 biped robot		7
348	EP-WAR3 biped robot for climbing and descending stairs. <i>Robotica</i> , 2004 , 22, 405-417	2.1	7
347	An experimental characterization of human falling down. <i>Mechanical Sciences</i> , 2017 , 8, 79-89	1.3	7
346	Experimental Dynamic Tests of Rib Implants. <i>Mechanisms and Machine Science</i> , 2019 , 353-361	0.3	7
345	Kinematic Analysis of an Exoskeleton-Based Robot for Elbow and Wrist Rehabilitation. <i>Mechanisms and Machine Science</i> , 2018 , 424-433	0.3	7
344	A Geometrical Characterization of Workspace Singularities in 3R Manipulators 2008 , 411-418		7
343	Numerical solution for designing telescopic manipulators with prescribed workspace points. <i>Robotics and Computer-Integrated Manufacturing</i> , 2014 , 30, 201-205	9.2	6
342	A falling motion control of humanoid robots based on biomechanical evaluation of falling down of humans 2015 ,		6
341	Explorations in the History of Machines and Mechanisms. <i>History of Mechanism and Machine Science</i> , 2012 ,	0.1	6
340	DESIGN AND SIMULATION OF A 1-DOF ANTHROPOMORPHIC CLUTCHED ARM FOR HUMANOID ROBOTS. <i>International Journal of Humanoid Robotics</i> , 2010 , 07, 157-182	1.2	6
339	The Genius of Archimedes -- 23 Centuries of Influence on Mathematics, Science and Engineering. <i>History of Mechanism and Machine Science</i> , 2010 ,	0.1	6
338	Design and operation of a tripod walking robot via dynamics simulation. <i>Robotica</i> , 2011 , 29, 733-743	2.1	6
337	Analysis and design of a modular underactuated mechanism for robotic fingers. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012 , 226, 242-256 ^{1.3}	1.3	6
336	A Brief Account on Roman Machines and Cultural Frames 2009 , 83-100		6

335	A Cartesian Representation for the Boundary Workspace of 3R Manipulators 2004 , 247-254		6
334	A 3-DOF parallel manipulator as earthquake motion simulator		6
333	Design and Experimental Validation of a Microgripper. <i>Journal of Robotics and Mechatronics</i> , 2001 , 13, 319-325	0.7	6
332	Experimental and Numerical Characterization of CaPaMan 2bis Operation. <i>Journal of Applied Research and Technology</i> , 2010 , 8,	1.7	6
331	Kinematic Design of a Tripod Parallel Mechanism for Robotic Legs. <i>Mechanisms and Machine Science</i> , 2018 , 121-130	0.3	6
330	Historical Development of CaPaMan, Cassino Parallel Manipulator. <i>Mechanisms and Machine Science</i> , 2013 , 749-757	0.3	6
329	Italian Kinematic Studies in XIXth Century 2000 , 197-206		6
328	International Symposium on History of Machines and Mechanisms 2009 ,		6
327	Design and Experimental Characterization of L-CADEL v2, an Assistive Device for Elbow Motion. <i>Sensors</i> , 2021 , 21,	3.8	6
326	Development and characterisation of a controllable adjustable knee joint mechanism. <i>Mechanism and Machine Theory</i> , 2021 , 155, 104101	4	6
325	Innovation challenges for Mechanism Design. <i>Mechanism and Machine Theory</i> , 2018 , 125, 94-100	4	6
324	Prototype Design and Performance Tests of Beijing's Astronaut Robot. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1342	2.6	6
323	Notes for a History of Grasping Devices. <i>Mechanisms and Machine Science</i> , 2013 , 3-16	0.3	6
322	Design and Feasibility Study of a Leg-exoskeleton Assistive Wheelchair Robot with Tests on Gluteus Medius Muscles. <i>Sensors</i> , 2019 , 19,	3.8	5
321	Experimental Validation of HeritageBot III, a Robotic Platform for Cultural Heritage. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020 , 100, 223-237	2.9	5
320	Adaptive fuzzy sliding mode control for redundant manipulators with varying payload. <i>Industrial Robot</i> , 2016 , 43, 665-676	1.4	5
319	Elastodynamic Model-Based Vibration Characteristics Prediction of a Three Prismatic Revolute Spherical Parallel Kinematic Machine. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016 , 138,	1.6	5
318	Design and Kinematic Analysis of a Novel Metamorphic Mechanism for Lower Limb Rehabilitation. <i>Mechanisms and Machine Science</i> , 2016 , 545-558	0.3	5

317	Motion planning for humanoid robot dynamically stepping over consecutive large obstacles. <i>Industrial Robot</i> , 2016 , 43, 204-220	1.4	5
316	The Historical Development of Catrasys, a Cable System. <i>History of Mechanism and Machine Science</i> , 2012 , 365-379	0.1	5
315	A Multiobjective Optimal Path Planning for a 1-DOF Clutched ARM. <i>Mechanics Based Design of Structures and Machines</i> , 2012 , 40, 109-121	1.7	5
314	Analysis and grasp strategy modeling for underactuated multi-fingered robot hand 2009 ,		5
313	Simulation results for design and operation of CALUMA, a new low-cost humanoid robot. <i>Robotica</i> , 2008 , 26, 601-618	2.1	5
312	. <i>Mechanism and Machine Theory</i> , 2006 , 41, 883	4	5
311	Design and Evaluation of a Discretely Actuated Multi-Module Parallel Manipulator. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2006 , 220, 513-526	1.3	5
310	Development of a humanoid robot having 2-DOF waist and 2-DOF trunk		5
309	Coordinate-free formulation of a 3-2-1 wire-based tracking device using Cayley-Menger determinants		5
308	A Characterization of the Workspace Boundary of Three-Revolute Manipulators 2002 , 1177		5
307	On the workspace of telescopic manipulators. <i>Robotica</i> , 1998 , 16, 691-696	2.1	5
306	Displacement analysis of a Thrin Platform parallel manipulator. <i>Advanced Robotics</i> , 1996 , 11, 17-31	1.7	5
305	Cable-Driven Robots in Physical Rehabilitation. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020 , 52-96	0.4	5
304	A Robot Application for Analysis, Survey and Conservation of Historical Architectures		5
303	An Analytical Design for CaPaMan With Prescribed Position and Orientation 2000 ,		5
302	Design and Simulation of a Parallel-Mechanism Testbed for Head Impact. <i>Mechanisms and Machine Science</i> , 2020 , 400-407	0.3	5
301	How to Use 3D Printing for Feasibility Check of Mechanism Design. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 307-315	0.4	5
300	Design Optimization of a Cable-Driven Parallel Robot in Upper Arm Training-Rehabilitation Processes. <i>Mechanisms and Machine Science</i> , 2018 , 413-423	0.3	5

299	Design and Simulation of Kursk Robot for In-Pipe Inspection 2010 , 103-114		5
298	Analytical Constraints for a Workspace Design of 2R Manipulators. <i>Solid Mechanics and Its Applications</i> , 1995 , 173-182	0.4	5
297	Machine Designs and Drawings in Renaissance Editions of de Architectura by Marcus Vitruvius Pollio. <i>History of Mechanism and Machine Science</i> , 2016 , 291-307	0.1	5
296	Structure-control design of a mechatronic system with parallelogram mechanism using an estimation of distribution algorithm. <i>Mechanics Based Design of Structures and Machines</i> , 2016 , 44, 58-71	1.7	5
295	Mechanical Design and Assessment of a Low-Cost 7-DOF Prosthetic Arm for Shoulder Disarticulation. <i>Applied Bionics and Biomechanics</i> , 2018 , 2018, 4357602	1.6	5
294	Experimental Characterization of NURSE, a Device for Arm Motion Guidance. <i>Journal of Healthcare Engineering</i> , 2018 , 2018, 9303282	3.7	5
293	Design and Experimental Characterization of a Cable-Driven Elbow Assisting Device. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2021 , 15,	1.3	5
292	Design optimization of a cable-based parallel tracking system by using evolutionary algorithms. <i>Robotica</i> , 2015 , 33, 599-610	2.1	4
291	Experiences and Design of a Cable-Driven Assisting Device for Arm Motion. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019 , 94-101	0.6	4
290	An experimental analysis of human straight walking. <i>Frontiers of Mechanical Engineering</i> , 2013 , 8, 95-103	3.3	4
289	Design and Simulation of an Assisting Mechanism for Arm Exercises. <i>Mechanisms and Machine Science</i> , 2017 , 115-123	0.3	4
288	Validation Process of Pose Accuracy Estimation in Parallel Robots. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	4
287	Devices for Distance and Time Measurement at the Time of Roman Empire 2009 , 101-114		4
286	A Design and Simulation of CALUMA (Cassino Low-Cost hUMANoid Robot) 2006 , 659		4
285	Level-set method for workspace analysis of serial manipulators 2006 , 307-314		4
284	A design of a new leg-wheel walking robot 2007 ,		4
283	Numerical and experimental estimation of stiffness performances for the humanoid robot WABIAN-RV		4
282	A Fairly Simple Method to Identify the Curvature of a Cam Profile 2004 , 987		4

281	Dynamic simulation and experiments for the design of a new 7-dofs biped walking leg module. <i>Robotica</i> , 2004 , 22, 41-50	2.1	4
280	Design and Test of an Articulated Mechanism for a 1 DOF Anthropomorphic Finger 2002 , 857		4
279	A manipulation analysis for robot programming. <i>Robotica</i> , 1999 , 17, 529-541	2.1	4
278	Progress and Development Trend of Space Intelligent Robot Technology. <i>Space: Science & Technology</i> , 2022 , 2022, 1-11		4
277	Seismic motion simulation based on Cassino Parallel Manipulator. <i>Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences</i> , 2002 , 24, 213-219		4
276	Prototype Design and Testing of TORVEastro, Cable-Driven Astronaut Robot. <i>Mechanisms and Machine Science</i> , 2020 , 448-455	0.3	4
275	Design of a Test Bench to Simulate Cranial Sudden Impact. <i>Mechanisms and Machine Science</i> , 2019 , 225-234		4
274	Design and experience of a test-bed for gearboxes. <i>Mechanisms and Machine Science</i> , 2019 , 967-976	0.3	4
273	Lab Experiences on Impact Biomechanics of Human Head. <i>Mechanisms and Machine Science</i> , 2021 , 229-237		4
272	Experimental Characterization of a Cable-Driven Device for Elbow Motion Assistance. <i>Mechanisms and Machine Science</i> , 2021 , 71-78	0.3	4
271	Mechanism Design for Robots. <i>Mechanisms and Machine Science</i> , 2014 , 1-8	0.3	4
270	Design and FEM Analysis of a Novel Humanoid Torso. <i>Mechanisms and Machine Science</i> , 2015 , 477-488	0.3	4
269	Activity and Trends in MMS from IFToMM Community. <i>Mechanisms and Machine Science</i> , 2011 , 3-24	0.3	4
268	Marcus Vitruvius Pollio (Second Half of the 1st Century B.C.). <i>History of Mechanism and Machine Science</i> , 2014 , 309-346	0.1	4
267	Design, Modeling and Experimentation of a Biomimetic Wall-climbing Robot for Multiple Surfaces. <i>Journal of Bionic Engineering</i> , 2020 , 17, 523-538	2.7	4
266	Figures and achievements in MMS as landmarks in history of MMS for inspiration of IFToMM activity. <i>Mechanism and Machine Theory</i> , 2016 , 105, 529-539	4	4
265	Enhanced D-H: an improved convention for establishing a robot link coordinate system fixed on the joint. <i>Industrial Robot</i> , 2019 , 47, 197-205	1.4	4
264	Design and Simulation of a Leg Exoskeleton Linkage for Human Motion Assistance. <i>Mechanisms and Machine Science</i> , 2019 , 93-100	0.3	4

263	Force Analysis and Curve Design for Laying Pipe in Loop Laying Head of Wire Rod Mills. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2019 , 32,	2.5	3
262	Finger Mechanisms for Robotic Hands. <i>Mechanisms and Machine Science</i> , 2015 , 3-13	0.3	3
261	A Dynamic Compensation for Roll Hemming Process. <i>IEEE Access</i> , 2018 , 6, 18264-18275	3.5	3
260	Experimental characterization of assisted human arm exercises 2018 ,		3
259	Kinematic Design of a Parallel Robot for Elbow and Wrist Rehabilitation. <i>Mechanisms and Machine Science</i> , 2018 , 147-154	0.3	3
258	Advances on Theory and Practice of Robots and Manipulators. <i>Mechanisms and Machine Science</i> , 2014 ,	0.3	3
257	Contributions of Archimedes on mechanics and design of mechanisms. <i>Mechanism and Machine Theory</i> , 2014 , 72, 86-93	4	3
256	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	3
255	Workspace analysis and design improvement of a carotid flow measurement system. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010 , 224, 1311-23	1.7	3
254	Trajectory planning for a 1-DOF clutched robotic arm. <i>Robotica</i> , 2011 , 29, 745-756	2.1	3
253	A Formulation for Analytical Design of Telescopic Manipulators with Prescribed Workspace. <i>Applied Mechanics and Materials</i> , 2012 , 162, 113-120	0.3	3
252	Medieval Machines and Mechanisms. <i>History of Mechanism and Machine Science</i> , 2009 , 65-90	0.1	3
251	Grasping Simulation of an Underactuated Finger Mechanism for Larm Hand. <i>International Journal of Modelling and Simulation</i> , 2010 , 30, 87-97	1.5	3
250	Operation strategy for a low-cost easy-operation Cassino Hexapod. <i>Applied Bionics and Biomechanics</i> , 2008 , 4, 149-156	1.6	3
249	Antropomorphic Design and Operation of a New Low-Cost Humanoid Robot		3
248	Stiffness analysis for 6-DOF mouth training parallel robot WY-5		3
247	Logical sensors and control system programming for an autonomous biped walking robot		3
246	Error analysis and experimental tests of CATRASYS (Cassino Tracking System)		3

245	Workspace analysis and design of open-chain manipulators 1998 ,		3
244	Generation of adjacent configurations for a collision-free path planning of manipulators. <i>Robotica</i> , 1996 , 14, 391-396	2.1	3
243	Numerical and experimental performance estimation for a ExoFing - 2 DOFs finger exoskeleton. <i>Robotica</i> , 1-13	2.1	3
242	A Study of Feasibility for a Novel Parallel-serial Manipulator. <i>Journal of Robotics and Mechatronics</i> , 2002 , 14, 304-312	0.7	3
241	Design and Operation Improvements for CADEL Cable-Driven Elbow Assisting Device. <i>Mechanisms and Machine Science</i> , 2021 , 503-511	0.3	3
240	Kinematic Design Problems for Low-Cost Easy-Operation Humanoid Robots. <i>Mechanisms and Machine Science</i> , 2015 , 91-99	0.3	3
239	Mechanical Design of a Prosthetic Human Arm and its Dynamic Simulation. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 482-490	0.4	3
238	Design and Lab Tests of a Scaled Leg Exoskeleton with Electric Actuators. <i>Mechanisms and Machine Science</i> , 2018 , 719-726	0.3	3
237	An Experimental Characterization of a Rickshaw Prototype. <i>Mechanisms and Machine Science</i> , 2012 , 203-214		3
236	A Characterization of Human Locomotion by CATRASYS (Cassino Tracking System). <i>Mechanisms and Machine Science</i> , 2013 , 469-477	0.3	3
235	Early Studies in Screw Theory 2000 , 411-422		3
234	Collision-Avoidance Robot Path Planning Using Fully Cartesian Coordinates 1994 , 485-494		3
233	History of Human Powered Threshing Machines: A Literature Review. <i>History of Mechanism and Machine Science</i> , 2012 , 431-445	0.1	3
232	Kinematic Modelling and Motion Analysis of a Humanoid Torso Mechanism. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2607	2.6	3
231	Design and simulation of a cable-pulley-based transmission for artificial ankle joints. <i>Frontiers of Mechanical Engineering</i> , 2016 , 11, 170-183	3.3	3
230	An Experimental Characterization of TORVEastro, Cable-Driven Astronaut Robot. <i>Robotics</i> , 2021 , 10, 21	2.8	3
229	Design and Construction of a Demonstrative HeritageBot Platform. <i>Mechanisms and Machine Science</i> , 2018 , 355-362	0.3	3
228	A historical study and mechanical classification of ancient music-playing automata. <i>Mechanism and Machine Theory</i> , 2018 , 121, 273-285	4	3

227	Dynamic Modeling and Simulation of Sliding Mode Control for a Cable Driven Parallel Robot. <i>Mechanisms and Machine Science</i> , 2018 , 413-426	0.3	3
226	Virtual and Physical Prototyping of Reconfigurable Parallel Mechanisms with Single Actuation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7158	2.6	3
225	Experiences in Leadership IFToMM: Achievements and Challenges. <i>Mechanisms and Machine Science</i> , 2022 , 3-16	0.3	3
224	Prototype and Testing of HeritageBot Platform for Service in Cultural Heritage 2017 , 103-112		2
223	Effects of Voltage Dips on Robotic Grasping. <i>Robotics</i> , 2019 , 8, 28	2.8	2
222	Innovation of MMS with Inspiration from the Past. <i>International Journal of Applied Mechanics and Engineering</i> , 2016 , 21, IX-XXII	0.6	2
221	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	2
220	Experimental Characterization of the Coupling Stage of a Two-Stage Planetary Gearbox in Variable Operational Conditions. <i>Machines</i> , 2019 , 7, 45	2.9	2
219	Analysis of the Dynamic Behavior of an Electric Vehicle Using an Equivalent Roll Stiffness Model. <i>Mechanisms and Machine Science</i> , 2013 , 599-607	0.3	2
218	Kinematic Analysis of a Continuum Parallel Robot. <i>Mechanisms and Machine Science</i> , 2017 , 173-180	0.3	2
217	A Robotic Solution for the Restoration of Fresco Paintings. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 160	1.4	2
216	Kinetostatic Benchmark of Rear Suspension Systems for Motorcycle. <i>Mechanisms and Machine Science</i> , 2014 , 1-8	0.3	2
215	Underactuated Finger Mechanism for LARM Hand. <i>Mechanisms and Machine Science</i> , 2014 , 283-291	0.3	2
214	Design and Operation Analysis of a New Biped Mechanism. <i>International Journal of Humanoid Robotics</i> , 2014 , 11, 1450017	1.2	2
213	A design procedure for conceptual design of mechanisms. <i>International Journal of Mechanisms and Robotic Systems</i> , 2013 , 1, 136	0	2
212	Historical Development of Paper Mills and Their Machines in South Latium During the Nineteenth Century. <i>History of Mechanism and Machine Science</i> , 2011 , 85-117	0.1	2
211	Additional Actuators for Obstacle Overcoming by a Leg Mechanism. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 6898-6903		2
210	Problems and requirements for a chameleon-like service robot in space station 2011 ,		2

209	A Vision on Machines. <i>History of Mechanism and Machine Science</i> , 2009 , 169-205	0.1	2
208	A New Design for Cassino Hexapod Robot 2010 ,		2
207	Mechatronics management a BSC program 2008 ,		2
206	An Optimal Design for a New Underactuated Finger Mechanism 2009 , 149-157		2
205	Numerical and experimental analyses of radial cams with circular-arc profiles. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2006 , 220, 111-125 ^{1,3}		2
204	ON THE DESIGN OF A FOUR-BAR MECHANISM FOR OBSTACLES CLIMBING WHEELS 2007 ,		2
203	Agustin Betancourt: An Early Modern Scientist and Engineer in TMM 2006 , 301		2
202	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	1.6	2
201	An Analytical Design of Telescopic Manipulator Arms for Prescribed Workspace 1998 , 247-254		2
200	CaPaMan (Cassino Parallel Manipulator) as sensed earthquake simulator		2
199	Optimal Design and Location of Manipulators 1995 , 131-146		2
198	Feasible Workspace Regions for a Two-Revolute Manipulator Design 1996 , 189-198		2
197	Experimental Validation of Light Cable-Driven Elbow-Assisting Device L-CADEL Design. <i>Journal of Bionic Engineering</i> , ¹	2.7	2
196	Considerations on Mechanism Designs as Suitable for Cultural Heritage Evaluation. <i>Advances in Historical Studies</i> , 2013 , 02, 175-184	0.2	2
195	Experimental Determination of Robot Workspace by Means of CATRASYS (Cassino Tracking System). <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2000 , 85-92	0.6	2
194	A Characterization of Cam Transmissions Through an Identification of Lumped Parameters 2006 ,		2
193	Ball Bearings from Roman Imperial Ships of Nemi Lake. <i>Advances in Historical Studies</i> , 2019 , 08, 115-130	0.2	2
192	Redesign and Construction of a Low-Cost CaPaMan Prototype. <i>Mechanisms and Machine Science</i> , 2019 , 158-165	0.3	2

191	Lab Experiences with LARM Clutched Arm for Assisting Disabled People. <i>Mechanisms and Machine Science</i> , 2015 , 603-611	0.3	2
190	Requirements and Constraints for a Robotized Roll Hemming Solution. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 244-251	0.4	2
189	Multi-objective Optimization of a Tripod Parallel Mechanism for a Robotic Leg. <i>Mechanisms and Machine Science</i> , 2018 , 374-382	0.3	2
188	Design and Experiences of a Planetary Gear Box for Adaptive Drives. <i>Mechanisms and Machine Science</i> , 2019 , 284-291	0.3	2
187	Path Planning in Complex Environments for Industrial Robots with Additional Degrees of Freedom. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2000 , 431-438	0.6	2
186	Challenges for Mechanism Design 2010 , 1-13		2
185	The Mechanics of Archimedes Towards Modern Mechanism Design. <i>History of Mechanism and Machine Science</i> , 2010 , 177-187	0.1	2
184	An Optimum Path Planning for LARM Clutched Arm 2010 , 393-400		2
183	Static Performance Analysis of an Exechon-like Parallel Kinematic Machine. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 831-843	0.2	2
182	Peculiarities of Evolution of Machine Technology and Its Industrialization in Italy during 19th Century. <i>Advances in Historical Studies</i> , 2015 , 04, 338-355	0.2	2
181	Pipeline Inspection Tests Using a Biomimetic Robot. <i>Biomimetics</i> , 2021 , 6,	3.7	2
180	A prototype characterization of ExoFinger, a finger exoskeleton. <i>International Journal of Advanced Robotic Systems</i> , 2021 , 18, 172988142110248	1.4	2
179	Impact Device for Biomechanics of Human Head-Neck Injuries. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-8	1.1	2
178	A master-slave control system for lower limb rehabilitation robot with pedal-actuated exoskeleton 2016 ,		2
177	A generic walking pattern generation method for humanoid robot walking on the slopes. <i>Industrial Robot</i> , 2016 , 43, 317-327	1.4	2
176	Analysis and Comparison of Motion Capture Systems for Human Walking. <i>Experimental Techniques</i> , 2016 , 40, 875-883	1.4	2
175	Design and performance simulation of TORVEastro three-link astronaut robot. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 659, 012010	0.4	2
174	Underactuated Elements Design Criterion for Envelop Gripper Mechanism. <i>Mechanisms and Machine Science</i> , 2019 , 432-442	0.3	2

173	Design and Testing of a Finger Exoskeleton Prototype. <i>Mechanisms and Machine Science</i> , 2019 , 342-349	0.3	2
172	A Falling Motion Strategy for Humanoids Based on Motion Primitives of Human Falling. <i>Mechanisms and Machine Science</i> , 2018 , 264-272	0.3	2
171	Design and Simulation of a Parallel-Serial LARMbot Arm. <i>Mechanisms and Machine Science</i> , 2018 , 379-386	0.3	2
170	A Short Introduction on IFToMM Officers Over Time 2004 , 3-10		2
169	Designing and Prototyping Reconstruction of Musician Automata 2017 , 22-32		1
168	Advances on the Development of a Robotic Hand with Movable Palm. <i>Mechanisms and Machine Science</i> , 2019 , 1997-2006	0.3	1
167	Applied Mathematics to Mobile Robotics and Their Applications. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-2	1.1	1
166	A Dynamic Analysis Based on MBD ADAMS Program for a Variant of Quadruped Robot. <i>Applied Mechanics and Materials</i> , 2016 , 823, 429-434	0.3	1
165	An Overview of the Ongoing Humanoid Robot Project LARMbot. <i>Lecture Notes in Computer Science</i> , 2016 , 53-64	0.9	1
164	Balancing of a 3-DOFs Parallel Manipulator 2016 , 173-191		1
163	Gait Transition Between Standing and Falling Down for a Humanoid Robot. <i>Mechanisms and Machine Science</i> , 2019 , 2501-2509	0.3	1
162	Design and Characterization of a Gearbox Joint for Manipulators. <i>Mechanisms and Machine Science</i> , 2019 , 2261-2268	0.3	1
161	Dynamics of a Humanoid Robot with Parallel Architectures. <i>Mechanisms and Machine Science</i> , 2019 , 1799-1808	0.3	1
160	Mechanism of a Leg Exoskeleton for Walking Rehabilitation Purposes. <i>Mechanisms and Machine Science</i> , 2014 , 107-114	0.3	1
159	Experimental experiences with a LARM tripod leg mechanism 2014 ,		1
158	An Experimental Characterization of Human Knee Joint Motion Capabilities. <i>Mechanisms and Machine Science</i> , 2017 , 411-419	0.3	1
157	Design and construction of a cycling-based wheelchair prototype 2017 ,		1
156	Design Methodology for a Compliant Binary Actuated Parallel Mechanism with Flexure Hinges. <i>Mechanisms and Machine Science</i> , 2013 , 171-179	0.3	1

155	Vibration Control for Parallel Manipulator Based on the Feed Forward Control Strategy 2013 ,		1
154	Simulation of the Lumbar Spine as a Multi-Module Paralel Manipulator. <i>Applied Bionics and Biomechanics</i> , 2011 , 8, 399-410	1.6	1
153	Feasible workspace regions for general two-revolute manipulator. <i>Frontiers of Mechanical Engineering</i> , 2011 , 6, 397-408	3.3	1
152	Simulation of combined motions for a 1-DOF clutched robotic arm 2009 ,		1
151	Machinery During the Industrial Revolution. <i>History of Mechanism and Machine Science</i> , 2009 , 141-168	0.1	1
150	The Twenty-One Books of Devices and Machines: An Encyclopedia of Machines and Mechanisms of the 16th Century 2009 , 115-132		1
149	Design and simulation of a DSP controller for a LARM Hand 2010 ,		1
148	Easy Programming of an Electropneumatic Walking Robot. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997 , 30, 747-754		1
147	An experimental characterization of earthquake effects on mechanism operation 2008 ,		1
146	Giulio Mozzi (1730–1813) 2007 , 279-293		1
145	Stiffness experimental monitoring for WL-16RII Biped Locomotor during walking 2006 , 105-112		1
144	An Experimental Validation of Three Circular-Arc Cams with Offset Followers. <i>Mechanics Based Design of Structures and Machines</i> , 2006 , 34, 261-276	1.7	1
143	Simulating CALUMA (CAssino Low-cost hUMANoid) robot carrying a load. <i>Applied Bionics and Biomechanics</i> , 2007 , 4, 1-8	1.6	1
142	A Study on Workspace Topologies of 3R Industrial-Type Manipulators 2006 ,		1
141	An Experimental Comparative Study on Non-Circular Gears and CAM Transmissions for a Blood Pumping System 2006 , 371		1
140	Design Problems for Parallel Manipulators in Assembling Operations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 13-26		1
139	Determination of the Workspace Boundary of a General n-Revolute Manipulator 1994 , 39-48		1
138	Design and Performance of L-CaPaMan2. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1380	2.6	1

137	L-CaPaMan Design and Performance Analysis. <i>Mechanisms and Machine Science</i> , 2022 , 569-576	0.3	1
136	Shape estimation for image-guided surgery with a highly articulated snake robot		1
135	Design and Development of the Cassino Biped Locomotor. <i>Journal of Mechanisms and Robotics</i> , 2020 , 12,	2.2	1
134	Francesco di Giorgio (1439–1501). <i>History of Mechanism and Machine Science</i> , 2020 , 47-66	0.1	1
133	Cesare Rossi (1955–2017). <i>History of Mechanism and Machine Science</i> , 2020 , 115-125	0.1	1
132	Design and Validation of Force Control Loops for a Parallel Manipulator	206-224	1
131	On the IFToMM Permanent Commission for History of MMS 2004 , 11-26		1
130	A Robotic System for Inspection and Repair of Small Diameter Pipelines. <i>Nauka I Obrazovanie</i> , 2015 , 15,		1
129	A Comparative Analysis of Teaching MMS at Politehnica University of Timișara and University of Cassino and South Latium. <i>Mechanisms and Machine Science</i> , 2019 , 91-102	0.3	1
128	Mechanisms in Heron’s Automata as Technological Transfer and Cultural Means. <i>History of Mechanism and Machine Science</i> , 2019 , 175-186	0.1	1
127	5DOF Mechanism for Vertebral Surgery Kinematic Analysis and Velocity Calculation. <i>Mechanisms and Machine Science</i> , 2019 , 1741-1749	0.3	1
126	Parallel Mechanism Designs for Humanoid Robots. <i>Mechanisms and Machine Science</i> , 2020 , 255-264	0.3	1
125	Numerical and Experimental Validation of ExoFing, a Finger Exoskeleton. <i>Mechanisms and Machine Science</i> , 2020 , 115-122	0.3	1
124	A Wearable Device for Ankle Motion Assistance. <i>Mechanisms and Machine Science</i> , 2021 , 173-181	0.3	1
123	Giovanni Bianchi (1924–2003). <i>History of Mechanism and Machine Science</i> , 2020 , 1-13	0.1	1
122	Challenges for Mechanism Design in Robotics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019 , 1-8	0.6	1
121	Experimental Validation and Tests of Operation Characteristics of a Parallel-Serial Manipulator 2002 , 331-338		1
120	Francesco Masi (1852–1944). <i>History of Mechanism and Machine Science</i> , 2009 , 141-162	0.1	1

119	Step Design of a Cassino Tripod Leg Mechanism. <i>Mechanisms and Machine Science</i> , 2015 , 211-219	0.3	1
118	Science, Technology and Industry in Southern Italy Before the Unification. <i>History of Mechanism and Machine Science</i> , 2016 , 159-179	0.1	1
117	Medium Size Companies of Mechanical Industry in Northern Italy During the Second Half of the 19th Century. <i>History of Mechanism and Machine Science</i> , 2016 , 181-198	0.1	1
116	General Algorithm for Computing the Theoretical Centering Precision of the Gripping Devices. <i>Mechanisms and Machine Science</i> , 2017 , 15-21	0.3	1
115	Human Motion Characterization Using Wireless Inertial Sensors. <i>Mechanisms and Machine Science</i> , 2017 , 401-408	0.3	1
114	The MuseBot Project. <i>Advances in Library and Information Science</i> , 2017 , 45-66	0.1	1
113	Performance Analysis of the Automata in a Blossoming Flower Clock in the 18th Century. <i>Mechanisms and Machine Science</i> , 2018 , 1017-1024	0.3	1
112	Experimental Evaluation of Artificial Human Ribs. <i>Mechanisms and Machine Science</i> , 2018 , 434-443	0.3	1
111	History and Challenges of Mechanism and Machine Science within IFToMM Community. <i>Studies in Computational Intelligence</i> , 2009 , 469-488	0.8	1
110	Design and Simulation of a Waist-Trunk System for a Humanoid Robot. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010 , 217-224	0.6	1
109	Mechanism Solutions for Legged Robots Overcoming Obstacles 2010 , 545-553		1
108	Design and Validation of Force Control Loops for a Parallel Manipulator. <i>International Journal of Intelligent Mechatronics and Robotics</i> , 2011 , 1, 1-18		1
107	Historical Accounts on the Figure of Engineers and Academic Mission for their Formation. <i>Mechanisms and Machine Science</i> , 2014 , 3-10	0.3	1
106	Giuseppe Antonio Borgnis (1781–1863). <i>History of Mechanism and Machine Science</i> , 2014 , 41-56	0.1	1
105	Allievi Lorenzo (1856–1941). <i>History of Mechanism and Machine Science</i> , 2014 , 1-17	0.1	1
104	A fairly simple mechatronic device for training human wrist motion. <i>International Journal of Advanced Robotic Systems</i> , 2020 , 17, 172988142097428	1.4	1
103	Design of Dual-Arm Exoskeleton for Mirrored Upper Limb Rehabilitation. <i>Mechanisms and Machine Science</i> , 2019 , 303-311	0.3	1
102	Aerodynamic Double Pendulum with Nonlinear Elastic Spring. <i>Mechanisms and Machine Science</i> , 2021 , 132-140	0.3	1

101	A Comparison of Algebraic and Iterative Procedures for the Generation of the Workspace of Parallel Robots. <i>Mechanisms and Machine Science</i> , 2021 , 53-61	0.3	1
100	Inverse Kinematics and Velocity Analysis of a 6-DOF Hexapod-Type Manipulator with a Circular Guide. <i>Mechanisms and Machine Science</i> , 2021 , 12-19	0.3	1
99	Design and Simulation of a Novel Hybrid Leg Mechanism for Walking Machines. <i>Mechanisms and Machine Science</i> , 2018 , 283-290	0.3	1
98	Prototype and Testing of LARMBot PK Arm. <i>Mechanisms and Machine Science</i> , 2022 , 210-219	0.3	1
97	An Innovative Optimization Design Procedure for Mechatronic Systems with a Multi-Criteria Formulation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8900	2.6	1
96	Recent Advances and Challenges in the IFToMM PC for History of MMS. <i>History of Mechanism and Machine Science</i> , 2022 , 10-23	0.1	1
95	Design of an Articulated Neck to Assess Impact Head-Neck Injuries.. <i>Life</i> , 2022 , 12,	3	1
94	Control Design for CABLEankle, a Cable Driven Manipulator for Ankle Motion Assistance. <i>Actuators</i> , 2022 , 11, 63	2.4	1
93	Requirements and Solutions for Motion Limb Assistance of COVID-19 Patients. <i>Robotics</i> , 2022 , 11, 45	2.8	1
92	Design and Performance of a Motion-Assisting Device for Ankle. <i>Mechanisms and Machine Science</i> , 2022 , 659-668	0.3	1
91	A Novel Two-Degree-of-Freedom Gimbal for Dynamic Laser Weeding: Design, Analysis, and Experimentation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	1
90	Development and Simulation of an Automated Twistlock Handling Robot System. <i>Mechanisms and Machine Science</i> , 2015 , 145-153	0.3	0
89	Design of a Methodology for the Determination of the Mechanical Rib Stiffness as Injury Index. <i>Mechanisms and Machine Science</i> , 2019 , 62-69	0.3	0
88	Design and Requirements for a Mobile Robot for Team Cooperation. <i>Mechanisms and Machine Science</i> , 2020 , 277-285	0.3	0
87	Corradino D'Ascanio and His Design of Vespa Scooter. <i>Mechanisms and Machine Science</i> , 2015 , 399-409	0.3	0
86	Combination of Hardware and Control to Reduce Humanoids Fall Damage. <i>International Journal of Humanoid Robotics</i> , 2020 , 17, 2050002	1.2	0
85	Design and Analysis of 2 DOF Elbow Prosthesis. <i>Mechanisms and Machine Science</i> , 2021 , 3-12	0.3	0
84	Design and Operation of Humanoid Robots with Incipient Fall Detection. <i>Proceedings of Higher Educational Institutions Rhine Building</i> , 2021 , 11-15	0.1	0

83	A geometrical formulation for the workspace of parallel manipulators. <i>Robotica</i> ,1-11	2.1	0
82	Design of a Robot for Inspecting the Multishape Pipeline Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	0
81	Wind power harvester based on an aerodynamic double pendulum. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> ,095440622210854	1.3	0
80	Design and Simulation of a Biped Locomotor with Walking and Turning Operation. <i>Mechanisms and Machine Science</i> , 2019 , 2329-2338	0.3	
79	Design and Characterization of a New 5-DOF Arc Welding Robot. <i>Mechanisms and Machine Science</i> , 2015 , 65-75	0.3	
78	Experimental Inspiration and Rapid Prototyping of a Novel Humanoid Torso. <i>Mechanisms and Machine Science</i> , 2016 , 65-74	0.3	
77	A Cable-Pulley Transmission for Ankle Joint Actuation in Artificial Leg. <i>Mechanisms and Machine Science</i> , 2016 , 559-570	0.3	
76	Interactive device supporting ankle joint rehabilitation. <i>Mechanisms and Machine Science</i> , 2019 , 43-52	0.3	
75	Giuseppe Antonio Borgnis and Significance of His Handbooks on Representation and Terminology of Machines. <i>Mechanisms and Machine Science</i> , 2014 , 301-308	0.3	
74	A Kinematic Solution of a Novel Leg Mechanism with Parallel Architecture. <i>Mechanisms and Machine Science</i> , 2017 , 41-49	0.3	
73	A low-cost control architecture for user-oriented service applications of Cassino parallel manipulator. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 877-882		
72	Open Robot Control for Services in Construction. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 865-870		
71	Anonymous Developments. <i>History of Mechanism and Machine Science</i> , 2009 , 1-17	0.1	
70	Chinese Inventions and Machines. <i>History of Mechanism and Machine Science</i> , 2009 , 19-42	0.1	
69	Mechanical Engineering in Antiquity. <i>History of Mechanism and Machine Science</i> , 2009 , 43-64	0.1	
68	Machines in the First Colonial Empires. <i>History of Mechanism and Machine Science</i> , 2009 , 117-139	0.1	
67	The Machine Renaissance. <i>History of Mechanism and Machine Science</i> , 2009 , 91-115	0.1	
66	The Evolution and Development of Mechanical Engineering Through Large Cultural Areas 2009 , 69-82		

- 65 Kurt Hain - An Outstanding Personality in the Field of Applied Kinematics and the Accessibility to his Scientific Work **2009**, 45-58
- 64 The MuseBot Project **2020**, 1721-1743
- 63 Italian Contributions to RAAD. *Mechanisms and Machine Science*, **2020**, 325-333 0.3
- 62 Design Issues for a Walking-Flying Robot. *Lecture Notes in Mechanical Engineering*, **2021**, 267-277 0.4
- 61 Computational Multi-Objective Optimization to Design Service Robots **2009**, 139-147
- 60 Operation Safety of a 2-DoF Planar Mechanism for Arm Rehabilitation. *Inventions*, **2021**, 6, 85 2.9
- 59 Mechanism Designs for Solar Tracking. *Mechanisms and Machine Science*, **2022**, 241-249 0.3
- 58 Historical and Technical Analysis of Harmonic Drive Gear Design. *Mechanisms and Machine Science*, **2022**, 46-55 0.3
- 57 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 0.7
- 56 A Gripper Mechanism to Automate Overload Process for Fuel Elements. *Mechanisms and Machine Science*, **2019**, 118-128 0.3
- 55 Experiences for a User-Friendly Operation of Cassino Hexapod III. *Mechanisms and Machine Science*, **2019**, 205-213 0.3
- 54 A Characterization of a Robotic Hand with Movable Palm. *Mechanisms and Machine Science*, **2019**, 118-125.3
- 53 Numerical Simulation of a Leg Exoskeleton for Human Motion Assistance. *Mechanisms and Machine Science*, **2019**, 101-108 0.3
- 52 A Study of Feasibility for a Design of a Metamorphic Artificial Hand. *Mechanisms and Machine Science*, **2019**, 283-290 0.3
- 51 The Arsenal of Venice: The First Industrial Factory in History. *Mechanisms and Machine Science*, **2019**, 3-11 0.3
- 50 Reconstruction and Analysis of Zhanǎ Sand Clock in the 14th Century. *History of Mechanism and Machine Science*, **2019**, 123-133 0.1
- 49 Analysis and Reconstruction of a Platform with Ball Bearings in Roman Ships of Nemi Lake. *History of Mechanism and Machine Science*, **2019**, 187-198 0.1
- 48 Reconstruction of an Ancient Blossoming Flower Automaton with a Circular-arc Cam. *Mechanisms and Machine Science*, **2019**, 1151-1160 0.3

47	Comparison of Motion/Force Transmissibility in a 3-SPR Parallel Manipulator and a 6-SPS Equivalent Mechanism. <i>Mechanisms and Machine Science</i> , 2019 , 119-129	0.3
46	An Experimental Analysis of Vibrations During Walking in Humans and Robots. <i>Mechanisms and Machine Science</i> , 2021 , 635-643	0.3
45	Design Formulation for a Multi-criteria Optimization of Mechatronic Systems. <i>Mechanisms and Machine Science</i> , 2021 , 849-860	0.3
44	Design Experiences for Reconstruction of an Ancient Roman Crane. <i>Mechanisms and Machine Science</i> , 2021 , 37-45	0.3
43	Design and Experimental Characterization of an Underactuated Finger Mechanism. <i>Mechanisms and Machine Science</i> , 2021 , 102-110	0.3
42	Vibration Analysis of Gearboxes. <i>Mechanisms and Machine Science</i> , 2020 , 473-494	0.3
41	Numerical Design Solutions for Telescopic Manipulators. <i>Mechanisms and Machine Science</i> , 2015 , 101-108	0.3
40	Characteristics of a Walking Simulator with Parallel Manipulators. <i>Mechanisms and Machine Science</i> , 2015 , 137-145	0.3
39	Considerations on History of Mechanism and Machine Science with an IFToMM Role for Future Developments. <i>Mechanisms and Machine Science</i> , 2016 , 37-54	0.3
38	Giuseppe Antonio Borgnis and His Handbook of Machine Designs. <i>History of Mechanism and Machine Science</i> , 2016 , 15-34	0.1
37	On the Warship by Ansaldo for Chinese Imperial Navy. <i>History of Mechanism and Machine Science</i> , 2016 , 223-233	0.1
36	A Workspace Analysis of 4R Manipulators via Level-Set Formulation. <i>Mechanisms and Machine Science</i> , 2017 , 483-491	0.3
35	IFToMM in MMS Developments. <i>Mechanisms and Machine Science</i> , 2017 , 3-13	0.3
34	Toward an Active Protection for Robot Arms. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 386-393	0.3
33	Design, Construction and Testing of a Gripper for Horticulture Products. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 119-127	0.4
32	An Experimental Characterization of Roll Hemming Process. <i>Mechanisms and Machine Science</i> , 2018 , 367-378	0.3
31	Design Improvements on a Carotid Blood Flow Measurement System 2009 , 283-290	
30	On Link Effects of Ring Workspace of Three-Revolute Manipulators 2010 , 285-298	

- 29 Operation Simulation of a Robot for Space Applications. *Lecture Notes in Computer Science*, **2011**, 122-131.9
- 28 Workspace Evaluation for Analysis and Synthesis of Manipulators. *Mechanisms and Machine Science*, **2012**, 289-301 0.3
- 27 Integrating Intelligent Robot Services in Holonic Manufacturing. *Studies in Computational Intelligence*, **2012**, 75-88 0.8
- 26 Findings on Italian Historical Developments of Machine Technology in 19th Century Towards Industrial Revolution. *Mechanisms and Machine Science*, **2014**, 493-501 0.3
- 25 A Structural Synthesis of a New Leg Mechanism. *Mechanisms and Machine Science*, **2014**, 263-275 0.3
- 24 Kinematic Analysis Validation and Calibration of a Haptic Interface. *Mechanisms and Machine Science*, **2014**, 375-381 0.3
- 23 A Fairly Simple Mechanism Design for a Rural Water Pump. *Mechanisms and Machine Science*, **2014**, 261-268 0.3
- 22 Experiences on Service Robots at LARM in Cassino. *Mechanisms and Machine Science*, **2014**, 331-343 0.3
- 21 Message of the IFToMM president elected for the term 2016-2019. *Mechanics Based Design of Structures and Machines*, **2016**, 44, 1-3 1.7
- 20 Development of LARMBot 2, A Novel Humanoid Robot with Parallel Architectures. *Mechanisms and Machine Science*, **2019**, 17-24 0.3
- 19 Internship Experience for Learning the Operation of a Cable-Driven Robot for Rehabilitation Tasks. *Mechanisms and Machine Science*, **2019**, 195-207 0.3
- 18 Mechanism design for legged locomotion systems **2020**, 1-31
- 17 Geared Designs from the Past for Today Inspiration. *Mechanisms and Machine Science*, **2021**, 243-254 0.3
- 16 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 0.3
- 15 Driving Mechanism in Robotized Hospital Bed for Patients with COVID 19. *Mechanisms and Machine Science*, **2021**, 179-186 0.3
- 14 Challenges of Mechanical Engineering and in IFToMM: Yesterday and Tomorrow. *Mechanisms and Machine Science*, **2021**, 69-83 0.3
- 13 Cable-Driven Robots in Physical Rehabilitation **2021**, 255-290
- 12 Design of a Cable-Driven Robot for Elbow and Wrist Rehabilitation. *Mechanisms and Machine Science*, **2021**, 167-175 0.3

11	Design of a Flexible Interphalangeal Joint. <i>Mechanisms and Machine Science</i> , 2021 , 141-148	0.3
10	Design and Control of Linkage Exoskeletons in Wheelchair. <i>Mechanisms and Machine Science</i> , 2018 , 862-869	
9	Design and Simulation of an Underactuated Mechanism for Leg Exoskeleton. <i>Mechanisms and Machine Science</i> , 2018 , 181-190	0.3
8	Prototype and Testing of L-CaPaMan. <i>Mechanisms and Machine Science</i> , 2022 , 249-258	0.3
7	Design and simulation of a PK testbed for head impact evaluation. <i>Robotica</i> , 1-16	2.1
6	A Historical Development of LARM Finger Design Shape. <i>History of Mechanism and Machine Science</i> , 2022 , 360-371	0.1
5	Past Achievements and Future Challenges of Mechanism Design for Robotics. <i>Mechanisms and Machine Science</i> , 2022 , 3-9	0.3
4	Requirements and Design of a Hand for LARMBot Humanoid. <i>Mechanisms and Machine Science</i> , 2022 , 238-245	0.3
3	Performance Analysis of a Cable-Driven Ankle Assisting Device. <i>Mechanisms and Machine Science</i> , 2022 , 619-627	0.3
2	Design criteria study and simulation for underactuated symmetric pinching mechanism of pinch roll machine in high-speed wire rod product line. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622210953	1.3
1	Workspace and performance analysis of a 6-DOF hexapod-type manipulator with a circular guide. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622210959	1.3