Clement Gosselin

List of Publications by Year
in descending order

286 papers	10,115 citations	47006 **47** h-index
297 all docs	297 docs citations	297 times ranked

51608 **86** g-index
3930 citing authors

#	ARTICLE	IF	CITATIONS
1	Static Model-Based Grasping Force Control of Parallel Grasping Robots With Partial Cartesian Force Measurement. IEEE/ASME Transactions on Mechatronics, 2022, 27, 999-1010.	5.8	6
2	Intuitive Physical Human–Robot Interaction Using an Underactuated Redundant Manipulator With Complete Spatial Rotational Capabilities. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	6
3	Determination of the Inverse Kinematics Branches of Solution Based on Joint Coordinates for Universal Robots-Like Serial Robot Architecture. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	6
4	Kinematic Calibration of Cable-Driven Parallel Robots Considering the Pulley Kinematics. Mechanism and Machine Theory, 2022, 169, 104648.	4.5	20
5	Low-Impedance Displacement Sensors for Intuitive Physical Human–Robot Interaction: Motion Guidance, Design, and Prototyping. IEEE Transactions on Robotics, 2022, 38, 1518-1530.	10.3	5
6	Singularity analysis of a kinematically redundant (6+2)-DOF parallel mechanism for zero-torsion configurations. Mechanism and Machine Theory, 2022, 170, 104682.	4.5	7
7	Reorientation of Free-Falling Legged Robots. , 2022, 1, .		4
8	Synthesis and Prototyping of a 6-dof Parallel Robot for the Automatic Performance of Assembly Tasks. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2022, 26, 125-137.	0.9	2
9	How to reduce the impedance for pHRI: Admittance control or underactuation?. Mechatronics, 2022, 84, 102768.	3.3	4
10	Beyond-the-static-workspace point-to-point trajectory planning of a 6-DoF cable-suspended mechanism using oscillating SLERP. Mechanism and Machine Theory, 2022, 174, 104894.	4.5	4
11	Kinematic analysis of a new 2-DOF parallel wrist with a large singularity-free rotational workspace. Mechanism and Machine Theory, 2022, 175, 104942.	4.5	9
12	Singularity analysis of a kinematically redundant (6+2)-DOF parallel mechanism for general configurations. Mechanism and Machine Theory, 2022, 176, 105015.	4.5	3
13	A Bisection Algorithm for Time-Optimal Trajectory Planning Along Fully Specified Paths. IEEE Transactions on Robotics, 2021, 37, 131-145.	10.3	30
14	A novel family of umbrella-shaped deployable mechanisms constructed by multi-layer and multi-loop spatial linkage units. Mechanism and Machine Theory, 2021, 161, 104169.	4.5	14
15	Mechanisms for Robotic Grasping and Manipulation. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 573-593.	11.8	11
16	Mechanical Design of a Low-Impedance 6-Degree-of-Freedom Displacement Sensor for Intuitive Physical Human–Robot Interaction. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	7
17	Modeling and Development of Passively Adaptive Assistive Tools for the Assembly of Press-Fit Components. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	0
18	Exploiting Redundancies for Workspace Enlargement and Joint Trajectory Optimization of a Kinematically Redundant Hybrid Parallel Robot. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	7

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19	Design and Experimental Validation of Reorientation Manoeuvres for a Free Falling Robot Inspired From the Cat Righting Reflex. IEEE Transactions on Robotics, 2021, 37, 482-493.	10.3	7
20	Analysis and synthesis of assistive tools for insertion tasks. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 2066-2080.	2.4	1
21	Motion control algorithms based on the dynamic modelling of kinematically redundant hybrid parallel robots. Mechatronics, 2021, 76, 102555.	3.3	6
22	On the Optimal Design of Underactuated Fingers Using Rolling Contact Joints. IEEE Robotics and Automation Letters, 2021, 6, 4656-4663.	5.1	11
23	A Backdrivable Kinematically Redundant (6+3)-Degree-of-Freedom Hybrid Parallel Robot for Intuitive Sensorless Physical Human–Robot Interaction. IEEE Transactions on Robotics, 2021, 37, 1222-1238.	10.3	39
24	Rotational Low-Impedance Physical Human–Robot Interaction Using Underactuated Redundancy. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	9
25	Multiple Cylinder Extraction from Organized Point Clouds. Sensors, 2021, 21, 7630.	3.8	0
26	Dynamic decoupling analysis and experiment based on a class of modified Gough-Stewart parallel manipulators with line orthogonality. Mechanism and Machine Theory, 2020, 143, 103636.	4.5	13
27	Dynamic transition trajectory planning of three-DOF cable-suspended parallel robots via linear time-varying MPC. Mechanism and Machine Theory, 2020, 146, 103715.	4.5	20
28	Trajectory Optimization for a Six-DOF Cable-Suspended Parallel Robot with Dynamic Motions Beyond the Static Workspace. , 2020, , .		2
29	Kinematic and dynamic analysis of a novel parallel kinematic Schönflies motion generator. Mechanism and Machine Theory, 2020, 147, 103629.	4.5	12
30	Dynamic Point-To-Point Trajectory Planning for Three Degrees-of-Freedom Cable-Suspended Parallel Robots Using Rapidly Exploring Random Tree Search. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	11
31	Parallel Robots: Architecture, Modeling, and Design. , 2020, , 1-6.		0
32	Transferability in an 8-DoF Parallel Robot with a Configurable Platform. , 2020, , .		1
33	Design, Analysis and Preliminary Validation of a 3-DOF Rotational Inertia Generator *. , 2020, , .		0
34	A frequency-dependent impedance controller for an active-macro/passive-mini robotic system. , 2020, , .		0
35	Stable and repeatable grasping of flat objects on hard surfaces using passive and epicyclic mechanisms. Robotics and Computer-Integrated Manufacturing, 2019, 55, 1-10.	9.9	30
36	Kinematically Redundant Hybrid Robots With Simple Singularity Conditions and Analytical Inverse Kinematic Solutions. IEEE Robotics and Automation Letters, 2019, 4, 3828-3835.	5.1	16

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37	Kinematically Redundant (6+3)-dof Hybrid Parallel Robot with Large orientational Workspace and Remotely Operated Gripper. , 2019, , .		17
38	Kinematic Analysis of a 4-DOF Parallel Mechanism with Large Translational and Orientational Workspace. , 2019, , .		4
39	A parallel low-impedance sensing approach for highly responsive physical human-robot interaction. , 2019, , .		4
40	Model-Based Grasping of Unknown Objects from a Random Pile. Robotics, 2019, 8, 79.	3.5	8
41	Schõnflies Motion PARAllel Robot (SPARA): A Kinematically Redundant Parallel Robot With Unlimited Rotation Capabilities. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2273-2281.	5.8	18
42	Haptic Interface for Handshake Emulation. IEEE Robotics and Automation Letters, 2019, 4, 4124-4130.	5.1	6
43	Dynamic Trajectory Planning and Geometric Analysis of a Two-Degree-of-Freedom Translational Cable-Suspended Planar Parallel Robot Using a Parallelogram Cable Loop. Journal of Mechanisms and Robotics, 2019, 11, .	2.2	7
44	Deep Learning for Electromyographic Hand Gesture Signal Classification Using Transfer Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 760-771.	4.9	440
45	Exploiting the Kinematic Redundancy of a (6‰+‰3) Degrees-of-Freedom Parallel Mechanism. Journal of Mechanisms and Robotics, 2019, 11, .	2.2	14
46	Intuitive Adaptive Orientation Control for Enhanced Human–Robot Interaction. IEEE Transactions on Robotics, 2019, 35, 509-520.	10.3	20
47	Dynamically feasible motions of a class of purely-translational cable-suspended parallel robots. Mechanism and Machine Theory, 2019, 132, 193-206.	4.5	36
48	Experimental Validation of a Three-Degree-of-Freedom Cable-Suspended Parallel Robot for Spatial Translation With Constant Orientation. Journal of Mechanisms and Robotics, 2019, 11, .	2.2	8
49	Underactuation with Link Mechanisms. , 2019, , 523-533.		0
50	Modelling, trajectory optimisation and prototyping of sequentially actuated manipulators. Robotica, 2019, 37, 281-299.	1.9	1
51	Effect of Actuation Errors on a Purely-Translational Spatial Cable-Driven Parallel Robot. , 2019, , .		11
52	Dynamic Point-to-Point Trajectory Planning Beyond the Static Workspace for Six-DOF Cable-Suspended Parallel Robots. IEEE Transactions on Robotics, 2018, 34, 781-793.	10.3	24
53	A Multimodal Adaptive Wireless Control Interface for People With Upper-Body Disabilities. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 564-575.	4.0	24
54	Singularities of a planar 3-RPR parallel manipulator with joint clearance. Robotica, 2018, 36, 1098-1109.	1.9	4

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55	Kinematic Analysis of a Novel Kinematically Redundant Spherical Parallel Manipulator. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	11
56	A deployable mechanism concept for the collection of small-to-medium-size space debris. Advances in Space Research, 2018, 61, 1286-1297.	2.6	6
57	Redundancy in Parallel Mechanisms: A Review. Applied Mechanics Reviews, 2018, 70, .	10.1	72
58	Intuitive Physical Human-Robot Interaction: Using a Passive Parallel Mechanism. IEEE Robotics and Automation Magazine, 2018, 25, 28-38.	2.0	23
59	A model-based scooping grasp for the autonomous picking of unknown objects with a two-fingered gripper. Robotics and Autonomous Systems, 2018, 106, 14-25.	5.1	30
60	Periodic Trajectory Planning Beyond the Static Workspace for 6-DOF Cable-Suspended Parallel Robots. IEEE Transactions on Robotics, 2018, 34, 1128-1140.	10.3	28
61	Dynamically Feasible Periodic Trajectories for Generic Spatial Three-Degree-of-Freedom Cable-Suspended Parallel Robots1. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	16
62	Dynamically-Feasible Elliptical Trajectories for Fully Constrained 3-DOF Cable-Suspended Parallel Robots. Mechanisms and Machine Science, 2018, , 219-230.	0.5	6
63	Dynamic Transition Trajectory Planning of Three-DOF Cable-Suspended Parallel Robots. Mechanisms and Machine Science, 2018, , 231-242.	0.5	1
64	On the Design of a Novel Cable-Driven Parallel Robot Capable of Large Rotation About One Axis. Mechanisms and Machine Science, 2018, , 390-401.	0.5	7
65	Kinematically redundant planar parallel mechanisms: Kinematics, workspace and trajectory planning. Mechanism and Machine Theory, 2018, 119, 91-105.	4.5	37
66	Extending the capabilities of robotic manipulators using trajectory optimization. Mechanism and Machine Theory, 2018, 121, 502-514.	4.5	20
67	Exploiting the Kinematic Redundancy of a 6+3 Dofs Parallel Mechanism. , 2018, , .		0
68	Kinematic and Workspace Modelling of a 6-PUS Parallel Mechanism. , 2018, , .		0
69	Dynamic Trajectory Planning and Geometric Design of a Two-DOF Translational Cable-Suspended Planar Parallel Robot Using a Parallelogram Cable Loop. , 2018, , .		2
70	Picking, grasping, or scooping small objects lying on flat surfaces: A design approach. International Journal of Robotics Research, 2018, 37, 1484-1499.	8.5	40
71	Variable Admittance for pHRI: From Intuitive Unilateral Interaction to Optimal Bilateral Force Amplification. Robotics and Computer-Integrated Manufacturing, 2018, 52, 1-8.	9.9	28
72	Dynamic Point-to-Point Trajectory Planning of a Three-DOF Cable-Suspended Mechanism Using the Hypocycloid Curve. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1964-1972.	5.8	25

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73	On the Design of a Three-DOF Cable-Suspended Parallel Robot Based on a Parallelogram Arrangement of the Cables. Mechanisms and Machine Science, 2018, , 319-330.	0.5	12
74	Development and Experimental Validation of a Haptic Compass Based on Asymmetric Torque Stimuli. IEEE Transactions on Haptics, 2017, 10, 29-39.	2.7	22
75	uMan: A Low-Impedance Manipulator for Human–Robot Cooperation Based on Underactuated Redundancy. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1401-1411.	5.8	41
76	A Haptic Bilateral System for the Remote Human–Human Handshake. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	10
77	Passively Driven Redundant Spherical Joint With Very Large Range of Motion. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	11
78	Design and Static Analysis of Elastic Force and Torque Limiting Devices for Safe Physical Human–Robot Interaction. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	4
79	Singularity analysis of a class of kinematically redundant parallel Schönflies motion generators. Mechanism and Machine Theory, 2017, 112, 172-191.	4.5	18
80	An articulated assistive robot for intuitive hands-on-payload manipulation. Robotics and Computer-Integrated Manufacturing, 2017, 48, 182-187.	9.9	5
81	Trajectory planning for the static to dynamic transition of point-mass cable-suspended parallel mechanisms. Mechanism and Machine Theory, 2017, 113, 158-178.	4.5	22
82	A Systematic Approach for the Jacobian Analysis of Parallel Manipulators with Two End-Effectors. Mechanism and Machine Theory, 2017, 109, 171-194.	4.5	21
83	Wireless sEMG-Based Body–Machine Interface for Assistive Technology Devices. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 967-977.	6.3	27
84	Gravity Compensation of Robotic Manipulators Using Cylindrical Halbach Arrays. IEEE/ASME Transactions on Mechatronics, 2017, 22, 457-464.	5.8	31
85	Trajectory planning and control of a belt-driven locomotion interface for flat terrain walking and stair climbing. , 2017, , .		1
86	Optimization of the Singularity Locus of a Novel Kinematically Redundant Spherical Parallel Manipulator. , 2017, , .		0
87	An anticipative kinematic limitation avoidance algorithm for collaborative robots: Three-dimensional case. , 2017, , .		7
88	Design, control and experimental validation of a haptic robotic hand performing human-robot handshake with human-like agility. , 2017, , .		14
89	Bidirectional Haptic Communication: Application to the Teaching and Improvement of Handwriting Capabilities. Machines, 2016, 4, 6.	2.2	8
90	PARAMETRIC TRAJECTORY OPTIMISATION FOR INCREASED PAYLOAD. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 125-137.	0.8	4

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91	Consistent modeling resolves asymmetry in stiffness matrices. Mechanism and Machine Theory, 2016, 105, 80-90.	4.5	4
92	Trajectory Generation for Three-Degree-of-Freedom Cable-Suspended Parallel Robots Based on Analytical Integration of the Dynamic Equations. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	15
93	A convolutional neural network for robotic arm guidance using sEMG based frequency-features. , 2016, , .		52
94	An anticipative kinematic limitation avoidance algorithm for collaborative robots: Two-dimensional case. , 2016, , .		5
95	A tension distribution algorithm for cable-driven parallel robots operating beyond their wrench-feasible workspace. , 2016, , .		10
96	Workspace and Sensitivity Analysis of a Novel Nonredundant Parallel SCARA Robot Featuring Infinite Tool Rotation. IEEE Robotics and Automation Letters, 2016, 1, 776-783.	5.1	37
97	An introduction to utilising the redundancy of a kinematically redundant parallel manipulator to operate a gripper. Mechanism and Machine Theory, 2016, 101, 50-59.	4.5	33
98	A time-domain vibration observer and controller for physical human-robot interaction. Mechatronics, 2016, 36, 45-53.	3.3	35
99	Stiffness analysis, motion design and reconfiguration study of parallel mechanisms and manipulators. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 339-340.	2.1	5
100	Dynamic Point-to-Point Trajectory Planning of a Three-DOF Cable-Suspended Parallel Robot. IEEE Transactions on Robotics, 2016, 32, 1550-1557.	10.3	45
101	Parallel Mechanisms. Springer Handbooks, 2016, , 443-462.	0.6	10
102	Synthesis, optimization and experimental validation of reactionless two-DOF parallel mechanisms using counter-mechanisms. Meccanica, 2016, 51, 3211-3225.	2.0	11
103	On the design of mechanically safe robots based on spatial isotropic force modules and torque limiters. Mechanism and Machine Theory, 2016, 105, 199-212.	4.5	3
104	Modeling of physical human–robot interaction. International Journal of Advanced Robotic Systems, 2016, 13, 172988141665816.	2.1	25
105	Development and experimental validation of a reorientation algorithm for a free-floating serial manipulator. , 2016, , .		5
106	Design, Control, and Experimental Validation of a Handshaking Reactive Robotic Interface. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	9
107	Force Capabilities of Two-Degree-of-Freedom Serial Robots Equipped With Passive Isotropic Force Limiters. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	8
108	Experimental Validation of Jacobian-Based Stiffness Analysis Method for Parallel Manipulators With Nonredundant Legs. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	10

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109	Optimal Design of Safe Planar Manipulators Using Passive Torque Limiters. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	6
110	A Cable-Suspended Intelligent Crane Assist Device for the Intuitive Manipulation of Large Payloads. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2073-2084.	5.8	36
111	Kinematically Redundant Spatial Parallel Mechanisms for Singularity Avoidance and Large Orientational Workspace. IEEE Transactions on Robotics, 2016, 32, 286-300.	10.3	96
112	Low-Impedance Physical Human-Robot Interaction Using an Active–Passive Dynamics Decoupling. IEEE Robotics and Automation Letters, 2016, 1, 938-945.	5.1	21
113	Synthesis and Design of a One Degree-of-Freedom Planar Deployable Mechanism With a Large Expansion Ratio. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	23
114	Design of a locomotion interface for gait simulation based on belt-driven parallel mechanisms. , 2015, , .		2
115	Large-scale 3D printing with a cable-suspended robot. Additive Manufacturing, 2015, 7, 27-44.	3.0	154
116	Performance optimization of a multi-DOF bilateral robot force amplification using complementary stability. , 2015, , .		4
117	A Comparison of the Effectiveness of Design Approaches for Human-Friendly Robots. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	7
118	Time-Optimal Trajectory Planning of Cable-Driven Parallel Mechanisms for Fully Specified Paths With G1-Discontinuities. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	21
119	Weak support material techniques for alternative additive manufacturing materials. Additive Manufacturing, 2015, 8, 95-104.	3.0	20
120	Dynamic trajectory planning study of planar two-dof redundantly actuated cable-suspended parallel robots. Mechatronics, 2015, 30, 187-197.	3.3	24
121	Braking device using counter electromotive force for the ergonomic assisted manipulation of large payloads. Robotics and Computer-Integrated Manufacturing, 2015, 35, 137-143.	9.9	0
122	Singularity-Free Kinematically Redundant Planar Parallel Mechanisms With Unlimited Rotational Capability. IEEE Transactions on Robotics, 2015, 31, 457-467.	10.3	94
123	Dynamic modelling and control of a cubic flying blimp using external motion capture. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 970-982.	1.0	7
124	Maximal singularity-free orientation workspace over a position region of Gough–Stewart platform. Advanced Robotics, 2015, 29, 1427-1436.	1.8	9
125	Experimental Determination of the Accuracy of a Three-Dof Cable-Suspended Parallel Robot Performing Dynamic Trajectories. Mechanisms and Machine Science, 2015, , 101-112.	0.5	10
126	An admittance control scheme for haptic interfaces based on cable-driven parallel mechanisms. , 2014, , .		26

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127	Dynamically Feasible Trajectories for Three-DOF Planar Cable-Suspended Parallel Robots. , 2014, , .		13
128	Two-Degree-of-Freedom Decoupled Nonredundant Cable-Loop-Driven Parallel Mechanism. Journal of Mechanisms and Robotics, 2014, 6, .	2.2	2
129	Dynamic trajectory planning of planar two-dof redundantly actuated cable-suspended parallel robots. , 2014, , .		2
130	Design and experimental validation of planar programmable inertia generators. International Journal of Robotics Research, 2014, 33, 489-506.	8.5	6
131	A dual-motor robot joint mechanism with epicyclic gear train. , 2014, , .		6
132	Robotic force amplification with free space motion capability. , 2014, , .		7
133	Dynamic Point-to-Point Trajectory Planning of a Two-DOF Cable-Suspended Parallel Robot. IEEE Transactions on Robotics, 2014, 30, 728-736.	10.3	67
134	Approximate static balancing of a planar parallel cable-driven mechanism based on four-bar linkages and springs. Mechanism and Machine Theory, 2014, 79, 64-79.	4.5	18
135	Cable-driven parallel mechanisms: state of the art and perspectives. Mechanical Engineering Reviews, 2014, 1, DSM0004-DSM0004.	4.7	111
136	Construction, Mobility Analysis and Synthesis of Polyhedra With Articulated Faces. Journal of Mechanisms and Robotics, 2014, 6, .	2.2	12
137	ANALYSE CINÉMATIQUE ET DYNAMIQUE D'UN ROBOT PATINEUR. Transactions of the Canadian Society for Mechanical Engineering, 2014, 38, 185-197.	0.8	3
138	Global Planning of Dynamically Feasible Trajectories for Three-DOF Spatial Cable-Suspended Parallel Robots. Mechanisms and Machine Science, 2013, , 3-22.	0.5	53
139	A Friendly Beast of Burden: A Human-Assistive Robot for Handling Large Payloads. IEEE Robotics and Automation Magazine, 2013, 20, 139-147.	2.0	50
140	On the Force Capabilities of Two-Degree-of-Freedom Planar Parallel Mechanisms Equipped With Torque Limiters. , 2013, , .		0
141	A Vector Expression of the Constant-Orientation Singularity Locus of the Gough–Stewart Platform. Journal of Mechanisms and Robotics, 2013, 5, .	2.2	3
142	On the Design of a Mechanically Programmable Underactuated Anthropomorphic Prosthetic Gripper. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	80
143	Type Synthesis of Kinematically Redundant 3T1R Parallel Manipulators. , 2013, , .		1
144	Computed-Torque Control of a Four-Degree-of-Freedom Admittance Controlled Intelligent Assist Device. Springer Tracts in Advanced Robotics, 2013, , 635-649.	0.4	10

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145	Orientation-singularity analysis and orientationability evaluation of a special class of the Stewart–Gough parallel manipulators. Robotica, 2013, 31, 1361-1372.	1.9	3
146	A bidirectional haptic device for the training and assessment of handwriting capabilities. , 2013, , .		10
147	Orientationability analyses of a special class of the Stewart–Gough parallel manipulators using the unit quaternion representation. Advanced Robotics, 2013, 27, 147-158.	1.8	5
148	On the design of a statically balanced serial robot using remote counterweights. , 2013, , .		31
149	Time-Optimal Trajectory Planning of Cable-Driven Parallel Mechanisms for Fully-Specified Paths With G1 Discontinuities. , 2013, , .		4
150	Dynamic Balancing of Two-DOF Parallel Mechanisms Using a Counter-Mechanism. , 2013, , .		3
151	On the Design of a Portable Force Illusion Device for Navigation Aids. , 2013, , .		1
152	Kinematics and Workspace Analyses of 3/3-RRRS Parallel Manipulator. Applied Mechanics and Materials, 2012, 155-156, 1090-1095.	0.2	3
153	Conceptual Design and Static Analysis of Novel Planar Spring-Loaded Cable-Loop-Driven Parallel Mechanisms. Journal of Mechanisms and Robotics, 2012, 4, .	2.2	13
154	Complete Moment Balancing of Contra Planar 5R Linkages. , 2012, , .		0
155	On the Design of Mechanically Programmable Underactuated Anthropomorphic Robotic and Prosthetic Grippers. , 2012, , .		2
156	Trajectory Planning of Cable-Suspended Parallel Robots Using Interval Positive-Definite Polynomials. , 2012, , .		0
157	Performance Indices for Collaborative Serial Robots With Optimally Adjusted Series Clutch Actuators. Journal of Mechanisms and Robotics, 2012, 4, .	2.2	10
158	A Frame-Independent Vector Expression of the Singularity Locus of the Gough-Stewart Platform. , 2012, , .		0
159	Singularity Conditions of 3T1R Parallel Manipulators With Identical Limb Structures. Journal of Mechanisms and Robotics, 2012, 4, .	2.2	53
160	Two-Degree-of-Freedom Decoupled Non-Redundant Cable-Loop-Driven Parallel Mechanism. , 2012, , .		0
161	Stable and Intuitive Control of an Intelligent Assist Device. IEEE Transactions on Haptics, 2012, 5, 148-159.	2.7	51
162	Point-to-point motion planning of a parallel 3-dof underactuated cable-suspended robot. , 2012, , .		40

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163	Dynamic trajectory planning of a two-DOF cable-suspended parallel robot. , 2012, , .		47
164	Variable admittance control of a four-degree-of-freedom intelligent assist device. , 2012, , .		150
165	Singularity analysis of 3T2R parallel mechanisms using Grassmannâ€"Cayley algebra and Grassmann geometry. Mechanism and Machine Theory, 2012, 52, 326-340.	4.5	46
166	On the development of a walking rehabilitation device with a large workspace. , 2011, 2011, 5975360.		1
167	Series Clutch Actuators for safe physical human-robot interaction. , 2011, , .		37
168	Forward Displacement Analysis of a Linearly Actuated Quadratic Spherical Parallel Manipulator. Journal of Mechanisms and Robotics, 2011, 3, .	2.2	5
169	Stable Precision Grasps by Underactuated Grippers. , 2011, 27, 1056-1066.		49
170	SINGULARITY ANALYSIS OF THE 4 RUU PARALLEL MANIPULATOR USING GRASSMANN-CAYLEY ALGEBRA. Transactions of the Canadian Society for Mechanical Engineering, 2011, 35, 515-528.	0.8	6
171	GEOMETRIC ANALYSIS OF THE KINEMATIC SENSITIVITY OF PLANAR PARALLEL MECHANISMS. Transactions of the Canadian Society for Mechanical Engineering, 2011, 35, 477-490.	0.8	17
172	On the determination of the force distribution inÂoverconstrained cable-driven parallel mechanisms. Meccanica, 2011, 46, 3-15.	2.0	104
173	Kinematic analysis of 5-RPUR (3T2R) parallel mechanisms. Meccanica, 2011, 46, 131-146.	2.0	32
174	Forward displacement analysis of a quadratic 4-DOF 3T1R parallel manipulator. Meccanica, 2011, 46, 147-154.	2.0	19
175	Kinematostatic modeling of compliant parallel mechanisms. Meccanica, 2011, 46, 155-169.	2.0	18
176	Fundamental issues and new trends in parallel mechanisms and manipulators. Meccanica, 2011, 46, 1-1.	2.0	2
177	Singularity analysis of 5-RPUR parallel mechanisms (3T2R). International Journal of Advanced Manufacturing Technology, 2011, 57, 1107-1121.	3.0	20
178	Forward kinematic problem of 5-RPUR parallel mechanisms (3T2R) with identical limb structures. Mechanism and Machine Theory, 2011, 46, 945-959.	4.5	46
179	Kinematic design of a planar and spherical mechanism for the abduction of the fingers of an anthropomorphic robotic Hand. , 2011, , .		4
180	[VOILES | SAILS]: A modular architecture for a fast parallel development in an international multidisciplinary project. , 2011, , .		4

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181	Determination of Singularity-Free Zones in the Workspace of Planar Parallel Mechanisms with Revolute Actuators. Applied Mechanics and Materials, 2011, 121-126, 1992-1996.	0.2	2
182	Comments on â€œDesign and analysis of a totally decoupled 3-DOF spherical parallel manipulatorâ€•by D. Zhang and F. Zhang (Robotica, Available on CJO 19 Nov, 2010, doi:10.1017/S0263574710000652). Robotica, 2011, 29, 1101-1103.	1.9	0
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