

# Mats Isaksson

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

328  
citations

840776

11  
h-index

940533

16  
g-index

27  
all docs

27  
docs citations

27  
times ranked

224  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Consensus-Based Framework for Distributed Bundle Adjustment. , 2016, , .		39
2	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
3	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
4	The Octahedral Hexarot " A novel 6-DOF parallel manipulator. Mechanism and Machine Theory, 2012, 55, 91-102.	4.5	21
5	Singularity analysis of a class of kinematically redundant parallel Sch"nflies motion generators. Mechanism and Machine Theory, 2017, 112, 172-191.	4.5	18
6	Motion/Force Transmission Analysis of Parallel Mechanisms With Planar Closed-Loop Subchains. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	17
7	A method for extending planar axis-symmetric parallel manipulators to spatial mechanisms. Mechanism and Machine Theory, 2015, 83, 1-13.	4.5	16
8	Parallel Manipulators With a Rotation-Symmetric Arm System. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	15
9	Kinematically Redundant Planar Parallel Mechanisms for Optimal Singularity Avoidance. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	14
10	Muscle activation during traditional laparoscopic surgery compared with robot-assisted laparoscopic surgery: a meta-analysis. Surgical Endoscopy and Other Interventional Techniques, 2020, 34, 31-38.	2.4	14
11	Kinematic and dynamic analysis of a novel parallel kinematic Sch"nflies motion generator. Mechanism and Machine Theory, 2020, 147, 103629.	4.5	12
12	Workspace Analysis of a Novel Six-Degrees-of-Freedom Parallel Manipulator With Coaxial Actuated Arms. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	11
13	Improving the kinematic performance of the SCARA-Tau PKM. , 2010, , .		10
14	Motion/Force Transmission Analysis of Planar Parallel Mechanisms With Closed-Loop Subchains. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	10
15	Pseudoconvex Proximal Splitting for L-infinity Problems in Multiview Geometry. , 2014, , .		8
16	Novel Fault-Tolerance Indices for Redundantly Actuated Parallel Robots. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	8
17	Validation of 3-Space Wireless Inertial Measurement Units Using an Industrial Robot. Sensors, 2021, 21, 6858.	3.8	8
18	A family of planar parallel manipulators. , 2011, , .		7

#	ARTICLE	IF	CITATIONS
19	On the feasibility of utilising gearing to extend the rotational workspace of a class of parallel robots. <i>Robotics and Computer-Integrated Manufacturing</i> , 2015, 35, 126-136.	9.9	7
20	Self-reported prevalence of injury and discomfort experienced by surgeons performing traditional and robot-assisted laparoscopic surgery: a meta-analysis demonstrating the value of RALS for surgeons. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2020, 34, 4741-4753.	2.4	6
21	Analysis of the inverse kinematics problem for 3-DOF axis-symmetric parallel manipulators with parasitic motion. , 2014, , .		4
22	A 5-DOF rotation-symmetric parallel manipulator with one unconstrained tool rotation. , 2012, , .		3
23	High Breakdown Bundle Adjustment. , 2015, , .		3
24	A comparison of the yaw constraining performance of SCARA-tau parallel manipulator variants via screw theory. , 2016, , .		3
25	Workspace analysis of two similar 3-DOF axis-symmetric parallel manipulators. , 2014, , .		2
26	Low-Cost 5-DOF Haptic Stylus Interaction Using Two Phantom Omni Devices. <i>Lecture Notes in Computer Science</i> , 2014, , 139-149.	1.3	2
27	On the feasibility of utilising an array of planar parallel robots to service adjoining workspaces. <i>Mechanism and Machine Theory</i> , 2018, 128, 382-394.	4.5	0