Janusz Jakubiak

List of Publications by Year
in descending order

40 papers	329 citations	1040056 9 h-index	940533 16 g-index
42 all docs	42 docs citations	42 times ranked	163 citing authors

#	Article	IF	Citations
1	A Mobile Robot-Based System for Automatic Inspection of Belt Conveyors in Mining Industry. Energies, 2022, 15, 327.	3.1	23
2	Testbed for control synthesis for multiple mobile robot systems : General concept and current research*. , 2020, , .		1
3	On Barycentric Coordinates in Control of a Thruster Driven Spacecraft. , 2018, , .		0
4	Development of Test Rig for Robotization of Mining Technological Processes â€" Oversized Rock Breaking Process Case. IOP Conference Series: Earth and Environmental Science, 2017, 95, 042028.	0.3	4
5	Preliminary Research on Possibilities of Drilling Process Robotization. IOP Conference Series: Earth and Environmental Science, 2017, 95, 042027.	0.3	2
6	A Set of Depth Sensor Processing ROS Tools for Wheeled Mobile Robot Navigation. Journal of Automation, Mobile Robotics and Intelligent Systems, 2017, 11, 48-56.	0.4	2
7	Selected Topics in Design and Application of a Robot for Remote Medical Examination with the Use of Ultrasonography and Ascultation from the Perspective of the REMEDI Project. Journal of Automation, Mobile Robotics and Intelligent Systems, 2017, 11, 82-94.	0.4	11
8	Sensing Feedback for the Control of Multi-joint Prosthetic Hand. Advances in Intelligent Systems and Computing, 2017, , 232-243.	0.6	0
9	Development of a mobile platform for a remote medical teleoperation robot. , 2016, , .		3
10	Control of mobile robot for remote medical examination: Design concepts and users' feedback from experimental studies. , 2016, , .		11
11	Control and Motion Planning of a Nonholonomic Parallel Orienting Platform. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	6
12	Control and perception system for ReMeDi robot mobile platform. , 2015, , .		9
13	Kinematics and Motion Planning of the Multi-Bar System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 75, 5-15.	3.4	1
14	Motion Planning of Non-holonomic Parallel Orienting Platform: A Jacobian Approach. , 2014, , 95-103.		2
15	Motion planning of the double-link trident snake robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 337-342.	0.4	1
16	Motion Planning for Parallel Robots with Non-holonomic Joints. , 2012, , 115-122.		4
17	Motion Planning of the Multi-Bar System: The Imbalanced Jacobian Algorithm. , 2012, , 59-66.		2
18	Motion planning in velocity affine mechanical systems. International Journal of Control, 2010, 83, 1965-1974.	1.9	11

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19	Motion Planning of the Trident Snake Robot: An Endogenous Configuration Space Approach. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2010, , 159-166.	0.6	7
20	A New Inverse Kinematics Algorithm for Nonholonomic Mobile Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 647-652.	0.4	1
21	Motion Planning of Nonholonomic Systems with Dynamics. , 2009, , 125-132.		5
22	Polynomial based approach in analysis and detection of surgeon's motions. , 2008, , .		4
23	On Predictive Approach to Inverse Kinematics of Mobile Manipulators. , 2007, , .		3
24	A definition of the extended Jacobian inverse kinematics algorithm for mobile robots. , 2007, , .		1
25	A two-step algorithm of smooth spline generation on Riemannian manifolds. Journal of Computational and Applied Mathematics, 2006, 194, 177-191.	2.0	18
26	Extended Jacobian inverse kinematics algorithm for nonholonomic mobile robots. International Journal of Control, 2006, 79, 895-909.	1.9	15
27	Hyperbolic-linear, Extended Jacobian Inverse Kinematics Algorithm for Doubly Nonholonomic Mobile Manipulators. , 2006, , 131-138.		0
28	A HYPERBOLIC, EXTENDED JACOBIAN INVERSE KINEMATICS ALGORITHM FOR MOBILE MANIPULATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 43-48.	0.4	2
29	A New Geometric Algorithm to Generate Smooth Interpolating Curves on Riemannian Manifolds. LMS Journal of Computation and Mathematics, 2005, 8, 251-266.	0.9	12
30	A Repeatable Inverse Kinematics Algorithm With Linear Invariant Subspaces for Mobile Manipulators. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1051-1057.	5.0	35
31	Doubly nonholonomic mobile manipulators. , 2004, , .		12
32	Acceleration-Driven Kinematics of Mobile Manipulators: An Endogenous Configuration Space Approach. , 2004, , 469-476.		4
33	Endogenous configuration space approach to mobile manipulators: A derivation and performance assessment of Jacobian inverse kinematics algorithms. International Journal of Control, 2003, 76, 1387-1419.	1.9	95
34	Extended jacobian motion planning algorithm for mobile manipulators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 147-152.	0.4	2
35	Optimization of robotic manipulator motion by gravity compensation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 271-276.	0.4	0
36	REGULAR JACOBIAN MOTION PLANNING ALGORITHMS FOR MOBILE MANIPULATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 121-126.	0.4	1

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37	Extended Jacobian inverse kinematics algorithms for mobile manipulators. Journal of Field Robotics, 2002, 19, 443-454.	0.7	11
38	Motion planning in endogenous configuration space. , 0, , .		2
39	An Extended Jacobian Inverse Kinematics Algorithm for Doubly Nonholonomic Mobile Manipulators. , 0, , .		3
40	Control synthesis for multiple mobile robot systems. Transactions of the Institute of Measurement and Control, 0, , 014233122110470.	1.7	1