

Zdenko Bobovsk \tilde{A} ^{1/2}

List of Publications by Year in descending order

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40
papers

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#	ARTICLE	IF	CITATIONS
1	Improved Mutual Understanding for Human-Robot Collaboration: Combining Human-Aware Motion Planning with Haptic Feedback Devices for Communicating Planned Trajectory. <i>Sensors</i> , 2021, 21, 3673.	2.1	26
2	Improved Pose Estimation of Aruco Tags Using a Novel 3D Placement Strategy. <i>Sensors</i> , 2020, 20, 4825.	2.1	25
3	A snake robot for locomotion in a pipe using trapezium-like travelling wave. <i>Mechanism and Machine Theory</i> , 2021, 158, 104221.	2.7	25
4	Analysis of Precision and Stability of Hand Tracking with Leap Motion Sensor. <i>Sensors</i> , 2020, 20, 4088.	2.1	20
5	Investigation of Snake Robot Locomotion Possibilities in a Pipe. <i>Symmetry</i> , 2020, 12, 939.	1.1	19
6	Intuitive Spatial Tactile Feedback for Better Awareness about Robot Trajectory during Human-Robot Collaboration. <i>Sensors</i> , 2021, 21, 5748.	2.1	16
7	Influence of the Approach Direction on the Repeatability of an Industrial Robot. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8714.	1.3	13
8	Snake Robot Movement in the Pipe Using Concertina Locomotion. <i>Applied Mechanics and Materials</i> , 0, 611, 121-129.	0.2	12
9	Influence of Drift on Robot Repeatability and Its Compensation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10813.	1.3	11
10	The synthesis of a segmented stair-climbing wheel. <i>International Journal of Advanced Robotic Systems</i> , 2018, 15, 172988141774947.	1.3	10
11	Reduction in Robotic Arm Energy Consumption by Particle Swarm Optimization. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8241.	1.3	10
12	Camera-Based Method for Identification of the Layout of a Robotic Workcell. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7679.	1.3	10
13	Increasing the Reliability of Data Collection of Laser Line Triangulation Sensor by Proper Placement of the Sensor. <i>Sensors</i> , 2021, 21, 2890.	2.1	10
14	Inverse Kinematics Data Adaptation to Non-Standard Modular Robotic Arm Consisting of Unique Rotational Modules. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1203.	1.3	9
15	Smart Building Surveillance System as Shared Sensory System for Localization of AGVs. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8452.	1.3	7
16	Chimney Sweeping Robot Based on a Pneumatic Actuator. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4872.	1.3	7
17	Finding Optimal Manipulator Arm Shapes to Avoid Collisions in a Static Environment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 64.	1.3	7
18	Using Virtual Scanning to Find Optimal Configuration of a 3D Scanner Turntable for Scanning of Mechanical Parts. <i>Sensors</i> , 2021, 21, 5343.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Structural Optimization Method of a FinRay Finger for the Best Wrapping of Object. Applied Sciences (Switzerland), 2021, 11, 3858.	1.3	5
20	THE INFLUENCE OF ANNEALING TEMPERATURE ON TENSILE STRENGTH OF POLYLACTIC ACID. MM Science Journal, 2020, 2020, 4132-4137.	0.2	5
21	Connecting System for Quick Replacement of Mechatronic SCHUNK Power Cube Modules for Mobile Robotic Systems. Applied Mechanics and Materials, 0, 772, 318-323.	0.2	4
22	Kinect v2 infrared images correction. International Journal of Advanced Robotic Systems, 2018, 15, 172988141875578.	1.3	4
23	Genetic Optimization of a Manipulator: Comparison between Straight, Rounded, and Curved Mechanism Links. Applied Sciences (Switzerland), 2021, 11, 2471.	1.3	4
24	Method for Robot Manipulator Joint Wear Reduction by Finding the Optimal Robot Placement in a Robotic Cell. Applied Sciences (Switzerland), 2021, 11, 5398.	1.3	4
25	Distributed Camera Subsystem for Obstacle Detection. Sensors, 2022, 22, 4588.	2.1	4
26	EXPERIMENTAL ANALYSIS OF TEMPERATURE RESISTANCE OF 3D PRINTED PLA COMPONENTS. MM Science Journal, 2021, 2021, 4322-4327.	0.2	3
27	Optimization of a Truss Structure Used to Design of the Manipulator Arm from a Set of Components. Applied Sciences (Switzerland), 2021, 11, 10193.	1.3	3
28	TUNING PERCEPTION AND MOTION PLANNING PARAMETERS FOR MOVEIT! FRAMEWORK. MM Science Journal, 2020, 2020, 4154-4163.	0.2	3
29	Multirepresentations and Multiconstraints Approach to the Numerical Synthesis of Serial Kinematic Structures of Manipulators. IEEE Access, 2022, 10, 68937-68951.	2.6	3
30	Automatic Detection of the Connected Module and its Orientation. Applied Mechanics and Materials, 0, 613, 151-156.	0.2	2
31	Shape-Changing Manipulator Possibilities and the Effect of the Deformable Segment on the Size of the Working Area. Mechanisms and Machine Science, 2022, , 272-280.	0.3	2
32	Matching Point Clouds with STL Models by Using the Principle Component Analysis and a Decomposition into Geometric Primitives. Applied Sciences (Switzerland), 2021, 11, 2268.	1.3	1
33	Cyclic Calculation of Inverse Kinematics for n-link Serial Mechanism. Acta Mechanica Slovaca, 2011, 15, 62-67.	0.1	1
34	Finding the Optimal Pose of 2D LLT Sensors to Improve Object Pose Estimation. Sensors, 2022, 22, 1536.	2.1	1
35	Number of Cycles and Position Error in Cyclic Inverse Kinematics for n-Link Serial Robot. Procedia Engineering, 2012, 48, 35-39.	1.2	0
36	Tilting Optimization of Fixed Stereovision Cameras. Procedia Engineering, 2012, 48, 479-488.	1.2	0

#	ARTICLE	IF	CITATIONS
37	Didactic Models Used on Mechatronic Courses. Solid State Phenomena, 2013, 199, 661-666.	0.3	0
38	Design of Geometrical Parameters for Walking Mechanism Leg with Use of Matlab Algorithm and SimMechanics. Applied Mechanics and Materials, 2014, 656, 164-170.	0.2	0
39	The Experimental Method for Obtaining Input Data for the Design of an Automatic Magnetic Connection Mechanism. Applied Mechanics and Materials, 2014, 555, 434-439.	0.2	0
40	Semi-autonomous robotic system for reconnaissance. , 2017, , .		0