Zdenko Bobovský

List of Publications by Year
in descending order

40 papers	292 citations	10 h-index	15 g-index
41 all docs	41 docs citations	41 times ranked	190 citing authors

933447

996975

#	Article	IF	Citations
1	Improved Mutual Understanding for Human-Robot Collaboration: Combining Human-Aware Motion Planning with Haptic Feedback Devices for Communicating Planned Trajectory. Sensors, 2021, 21, 3673.	3.8	26
2	Improved Pose Estimation of Aruco Tags Using a Novel 3D Placement Strategy. Sensors, 2020, 20, 4825.	3.8	25
3	A snake robot for locomotion in a pipe using trapezium-like travelling wave. Mechanism and Machine Theory, 2021, 158, 104221.	4.5	25
4	Analysis of Precision and Stability of Hand Tracking with Leap Motion Sensor. Sensors, 2020, 20, 4088.	3.8	20
5	Investigation of Snake Robot Locomotion Possibilities in a Pipe. Symmetry, 2020, 12, 939.	2.2	19
6	Intuitive Spatial Tactile Feedback for Better Awareness about Robot Trajectory during Human–Robot Collaboration. Sensors, 2021, 21, 5748.	3.8	16
7	Influence of the Approach Direction on the Repeatability of an Industrial Robot. Applied Sciences (Switzerland), 2020, 10, 8714.	2.5	13
8	Snake Robot Movement in the Pipe Using Concertina Locomotion. Applied Mechanics and Materials, 0, 611, 121-129.	0.2	12
9	Influence of Drift on Robot Repeatability and Its Compensation. Applied Sciences (Switzerland), 2021, 11, 10813.	2.5	11
10	The synthesis of a segmented stair-climbing wheel. International Journal of Advanced Robotic Systems, 2018, 15, 172988141774947.	2.1	10
11	Reduction in Robotic Arm Energy Consumption by Particle Swarm Optimization. Applied Sciences (Switzerland), 2020, 10, 8241.	2.5	10
12	Camera-Based Method for Identification of the Layout of a Robotic Workcell. Applied Sciences (Switzerland), 2020, 10, 7679.	2.5	10
13	Increasing the Reliability of Data Collection of Laser Line Triangulation Sensor by Proper Placement of the Sensor. Sensors, 2021, 21, 2890.	3.8	10
14	Inverse Kinematics Data Adaptation to Non-Standard Modular Robotic Arm Consisting of Unique Rotational Modules. Applied Sciences (Switzerland), 2021, 11, 1203.	2.5	9
15	Smart Building Surveillance System as Shared Sensory System for Localization of AGVs. Applied Sciences (Switzerland), 2020, 10, 8452.	2.5	7
16	Chimney Sweeping Robot Based on a Pneumatic Actuator. Applied Sciences (Switzerland), 2021, 11, 4872.	2.5	7
17	Finding Optimal Manipulator Arm Shapes to Avoid Collisions in a Static Environment. Applied Sciences (Switzerland), 2021, 11, 64.	2.5	7
18	Using Virtual Scanning to Find Optimal Configuration of a 3D Scanner Turntable for Scanning of Mechanical Parts. Sensors, 2021, 21, 5343.	3.8	6

#	Article	IF	Citations
19	Structural Optimization Method of a FinRay Finger for the Best Wrapping of Object. Applied Sciences (Switzerland), 2021, 11, 3858.	2.5	5
20	THE INFLUENCE OF ANNEALING TEMPERATURE ON TENSILE STRENGTH OF POLYLACTIC ACID. MM Science Journal, 2020, 2020, 4132-4137.	0.4	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.	2.1	4
23	Genetic Optimization of a Manipulator: Comparison between Straight, Rounded, and Curved Mechanism Links. Applied Sciences (Switzerland), 2021, 11, 2471.	2.5	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.	2.5	4
25	Distributed Camera Subsystem for Obstacle Detection. Sensors, 2022, 22, 4588.	3.8	4
26	EXPERIMENTAL ANALYSIS OF TEMPERATURE RESISTANCE OF 3D PRINTED PLA COMPONENTS. MM Science Journal, 2021, 2021, 4322-4327.	0.4	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.	2.5	3
28	TUNING PERCEPTION AND MOTION PLANNING PARAMETERS FOR MOVEIT! FRAMEWORK. MM Science Journal, 2020, 2020, 4154-4163.	0.4	3
29	Multirepresentations and Multiconstraints Approach to the Numerical Synthesis of Serial Kinematic Structures of Manipulators. IEEE Access, 2022, 10, 68937-68951.	4.2	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.	0.5	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.	2.5	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.	3.8	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