Sungsoo Rhim

List of Publications by Year
in descending order

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30 papers	270 citations	1478505 6 h-index	996975 15 g-index
30 all docs	30 docs citations	30 times ranked	237 citing authors

#	Article	IF	Citations
1	A simple model for constant storage modulus of poly (lactic acid)/poly (ethylene oxide)/carbon nanotubes nanocomposites at low frequencies assuming the properties of interphase regions and networks. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 80, 164-170.	3.1	68
2	Effect of â€œZâ€•factor for strength of interphase layers on the tensile strength of polymer nanocomposites. Polymer Composites, 2019, 40, 1117-1122.	4.6	62
3	Performance Evaluation Criteria for Autonomous Cleaning Robots. , 2007, , .		23
4	A general purpose contact algorithm using a compliance contact force model for rigid and flexible bodies of complex geometry. International Journal of Non-Linear Mechanics, 2013, 53, 13-23.	2.6	22
5	Assessment of pressure pain thresholds in collisions with collaborative robots. PLoS ONE, 2019, 14, e0215890.	2.5	16
6	A Real-Time Human-Robot Collision Safety Evaluation Method for Collaborative Robot. , 2019, , .		11
7	Allowable Maximum Safe Velocity Control based on Human-Robot Distance for Collaborative Robot. , 2018, , .		10
8	Experiments of optimal delay extraction algorithm using adaptive time-delay filter for improved vibration suppression. Journal of Mechanical Science and Technology, 2009, 23, 997-1000.	1.5	9
9	Evaluation of head-collision safety of a 7-DOF manipulator according to posture variation. Multibody System Dynamics, 2016, 37, 95-105.	2.7	8
10	Physical safety analysis of robot considering impactor shape. , 2017, , .		6
11	Assessment of Pain Onset and Maximum Bearable Pain Thresholds in Physical Contact Situations. Sensors, 2022, 22, 2996.	3.8	5
12	Soft Robotics. Time-delay Command Shaping Filters. Robust and/or Adaptive?. Journal of the Robotics Society of Japan, 1999, 17, 761-769.	0.1	4
13	Summary of recent standardization activities in the field of robotics. Robotica, 2013, 31, 217-224.	1.9	4
14	Internet-Based Visual Snow-Cover Monitoring and Measuring System. , 2006, , .		3
15	Modeling and control of lateral vibration of an axially translating flexible link. Journal of Mechanical Science and Technology, 2015, 29, 191-198.	1.5	3
16	A new approach to generate the DH parameters of modular robots. , 2017, , .		3
17	Identifying Safety Conditions of Human-Robot Collision based on Skin Injury Analysis. , 2018, , .		3
18	Identification of a closed cutaneous injury after mechanical trauma caused by collision. Skin Research and Technology, 2019, 25, 440-446.	1.6	3

#	Article	IF	Citations
19	INTERNATIONAL STANDARDIZATION ACTIVITIES IN ROBOTIC FIELDS. , 2009, , .		2
20	Dynamic analysis and parameter estimation of coupled three-link planar manipulator with flexible belt-drive system. Journal of Mechanical Science and Technology, 2015, 29, 981-988.	1.5	2
21	Estimation of Optimal Time-Delay in Adaptive Command Shaping Filter for Residual Vibration Suppression. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	1
22	Implementation of frequency-shaped tip reference in conjunction with learning controller for improved tip-tracking control. Journal of Mechanical Science and Technology, 2009, 23, 1008-1011.	1.5	1
23	Particle Dynamics Integration to Multibody Dynamics Using Graphics Processing Unit. Advanced Science Letters, 2012, 8, 366-370.	0.2	1
24	Adaptation of Time-Delay in Adaptive Command Shaping Filter for Flexible Manipulator Control. , 2006, , .		0
25	The efficiency improvement of image-based snow-cover measurement system using histogram projection and thinning method. , 2007, , .		0
26	Speed control and magnetic analysis of crawling robot with magnetic binder. International Journal of Applied Electromagnetics and Mechanics, 2011, 36, 191-205.	0.6	0
27	An efficient Generalized Geometry Contact algorithm including modal reduction flexible bodies. Mechanical Engineering Journal, 2017, 4, 17-00041-17-00041.	0.4	0
28	Effect of Imperfect Interphase Section Neighboring Dispersed and Networked Nanoclay on the Modulus of Nanocomposites by a Modeling Method. Fibers and Polymers, 2021, 22, 2517-2526.	2.1	0
29	Modeling of a Timing-Belt Drive System Used in a Large-Scale Panel-Handling Robot. Journal of the Korean Society for Precision Engineering, 2013, 30, 915-921.	0.2	0
30	EFFECTIVE NUMERICAL ANALYSIS METHOD APPLIED TO THE ROLL-TO-ROLL SYSTEM HAVING A WINDING WORKPIECE. Transactions of the Canadian Society for Mechanical Engineering, 2015, 39, 615-624.	0.8	0