

Tae-Heon Yang

List of Publications by Year in descending order

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567
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetorheological Fluid Haptic Shoes for Walking in VR. IEEE Transactions on Haptics, 2021, 14, 83-94.	2.7	24
2	Bioinspired Microsphere-Embedded Adhesive Architectures for an Electrothermally Actuating Transport Device of Dry/Wet Pliable Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 6930-6940.	8.0	20
3	Recent Advances and Opportunities of Active Materials for Haptic Technologies in Virtual and Augmented Reality. Advanced Functional Materials, 2021, 31, 2008831.	14.9	63
4	A Feasibility Study of a Vibrotactile System Based on Electrostatic Actuators for Touch Bar Interfaces: Experimental Evaluations. Applied Sciences (Switzerland), 2021, 11, 7084.	2.5	1
5	Design and Experimental Evaluation of an Electrorheological Haptic Module with Embedded Sensing. Applied Sciences (Switzerland), 2021, 11, 7723.	2.5	2
6	An Electronically Perceptive Bioinspired Soft Wet-Adhesion Actuator with Carbon Nanotube-Based Strain Sensors. ACS Nano, 2021, 15, 14137-14148.	14.6	33
7	Recent Advances and Opportunities of Active Materials for Haptic Technologies in Virtual and Augmented Reality (Adv. Funct. Mater. 39/2021). Advanced Functional Materials, 2021, 31, 2170292.	14.9	7
8	A Transfer Function Model Development for Reconstructing Radial Pulse Pressure Waveforms Using Non-Invasively Measured Pulses by a Robotic Tonometry System. Sensors, 2021, 21, 6837.	3.8	3
9	Development of a Polymer-Based MEG-Compatible Vibrotactile Stimulator for Studying Neuromagnetic Somatosensory Responses. IEEE Access, 2020, 8, 9235-9245.	4.2	3
10	Vibration Alert to the Brain: Evoked and Induced MEG Responses to High-Frequency Vibrotactile Stimuli on the Index Finger of Dominant and Non-dominant Hand. Frontiers in Human Neuroscience, 2020, 14, 576082.	2.0	6
11	Design and Evaluation of Enhanced Mock Circulatory Platform Simulating Cardiovascular Physiology for Medical Palpation Training. Applied Sciences (Switzerland), 2020, 10, 5433.	2.5	10
12	Experimental Evaluation on the Effect of Electrode Configuration in Electrostatic Actuators for Increasing Vibrotactile Feedback Intensity. Applied Sciences (Switzerland), 2020, 10, 5375.	2.5	3
13	A compact and compliant electrorheological actuator for generating a wide range of haptic sensations. Smart Materials and Structures, 2020, 29, 055028.	3.5	8
14	Development of a Mathematical Model for Age-Dependent Radial Artery Pulse Wave Analysis Based on Pulse Waveform Decomposition. IEEE Access, 2020, 8, 2963-2974.	4.2	5
15	Enhanced Haptic Sensations Using a Novel Electrostatic Vibration Actuator With Frequency Beating Phenomenon. IEEE Robotics and Automation Letters, 2020, 5, 1827-1834.	5.1	7
16	RealWalk: Haptic Shoes Using Actuated MR Fluid for Walking in VR. , 2019, , .		10
17	Design, modeling, and evaluation of a slim haptic actuator based on electrorheological fluid. Journal of Intelligent Material Systems and Structures, 2019, 30, 2521-2533.	2.5	26
18	Development of an Electrostatic Beat Module for Various Tactile Sensations in Touch Screen Devices. Applied Sciences (Switzerland), 2019, 9, 1229.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Application of Magneto-Rheological Fluids for Investigating the Effect of Skin Properties on Arterial Tonometry Measurements. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	10
20	A New Blood Pulsation Simulator Platform Incorporating Cardiovascular Physiology for Evaluating Radial Pulse Waveform. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-9.	1.9	15
21	A compact pulsatile simulator based on cam-follower mechanism for generating radial pulse waveforms. <i>BioMedical Engineering OnLine</i> , 2019, 18, 1.	2.7	49
22	Investigation of Variable Stiffness Effects on Radial Pulse Measurements Using Magneto-Rheological Elastomers. , 2019, , .		0
23	Application of magneto-rheological fluids for generating a wide range of radial pulse waveforms. <i>Smart Materials and Structures</i> , 2018, 27, 125010.	3.5	2
24	Design of a Multi-Functional Module for Visually Impaired Persons. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 1745-1751.	2.2	1
25	Capturing Age-Dependent Properties of Human Skin Using Magnetorheological Elastomers. , 2018, , .		0
26	Experimental evaluation of a miniature haptic actuator based on electrorheological fluids. , 2018, , .		1
27	Modeling and test of a kinaesthetic actuator based on MR fluid for haptic applications. <i>Review of Scientific Instruments</i> , 2017, 88, 035004.	1.3	6
28	Design and testing of a new radial pulsation simulator. , 2017, , .		0
29	Experimental evaluation of a miniature MR device for a wide range of human perceivable haptic sensations. <i>Smart Materials and Structures</i> , 2017, 26, 125006.	3.5	8
30	The Use of Magneto-Rheological Fluids for Simulating Arterial Pulse Waveforms. , 2017, , .		0
31	Development and evaluation of an impact vibration actuator using an unstable mass for mobile devices. <i>International Journal of Control, Automation and Systems</i> , 2016, 14, 827-834.	2.7	5
32	Mechanical and psychophysical performance evaluation of a haptic actuator based on magnetorheological fluids. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 1967-1975.	2.5	9
33	A new modular pin-array tactile device. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1745-1751.	2.2	9
34	A new thin and flexible vibrotactile module for an interactive mouse. , 2015, , .		0
35	Novel linear impact-resonant actuator for mobile applications. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 460-471.	4.1	36
36	Design, simulation, and testing of a magnetorheological fluid-based haptic actuator for mobile applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1670-1678.	2.5	9

#	ARTICLE	IF	CITATIONS
37	Flexible and bendable vibrotactile actuator using electro-conductive polyurethane. , 2015, , .		4
38	Design of a Mouse-Type Combined Haptic Device for Cutaneous, Thermal and Kinaesthetic Sensations. , 2014, , .		0
39	A miniature magneto-rheological actuator with an impedance sensing mechanism for haptic applications. Journal of Intelligent Material Systems and Structures, 2014, 25, 1054-1061.	2.5	8
40	Design and Evaluation of a Haptic Keypad System for Realistic Touch Interaction. , 2014, , .		0
41	Miniature impact actuator for haptic interaction with mobile devices. International Journal of Control, Automation and Systems, 2014, 12, 1283-1288.	2.7	11
42	Design of a Miniature Integrated Haptic Device for Cutaneous, Thermal and Kinaesthetic Sensations. Lecture Notes in Computer Science, 2014, , 505-512.	1.3	1
43	Design and Simulation of an MR Fluids-Based Haptic Actuator for Mobile Applications. , 2013, , .		1
44	Design of Flexible Hybrid Tactile Display Using Electro-Vibration and Electroactive Polymer Modules. , 2013, , .		2
45	Frequency analysis of a step dynamic pressure calibrator. Review of Scientific Instruments, 2012, 83, 095007.	1.3	12
46	Application of magnetorheological fluids for a miniature haptic button: Experimental evaluation. Journal of Intelligent Material Systems and Structures, 2012, 23, 1025-1031.	2.5	33
47	Design of a new miniature haptic button based on magneto-rheological fluids. , 2012, , .		3
48	A Miniature MR Actuator With Impedance Sensing Mechanism for Haptic Applications. , 2012, , .		0
49	Development of an Impact-Resonant Actuator for Mobile Devices. Lecture Notes in Computer Science, 2012, , 133-138.	1.3	4
50	A Novel Miniature Kinaesthetic Actuator Based on Magnetorheological Fluids. Lecture Notes in Computer Science, 2012, , 181-185.	1.3	1
51	A new subminiature impact actuator for mobile devices. , 2011, , .		10
52	TAXEL: Initial progress toward self-morphing visio-haptic interface. , 2011, , .		4
53	APPLICATION OF MAGNETO-RHEOLOGICAL FLUIDS FOR A MINIATURE HAPTIC BUTTON. , 2011, , .		0
54	Mechatronics Technology in Mobile Devices. IEEE Industrial Electronics Magazine, 2010, 4, 36-41.	2.6	12

#	ARTICLE	IF	CITATIONS
55	Development of a miniature tunable stiffness display using MR fluids for haptic application. Sensors and Actuators A: Physical, 2010, 163, 180-190.	4.1	53
56	A New Miniature Smart Actuator based on Piezoelectric material and Solenoid for Mobile Devices. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 615-620.	0.0	3
57	Tiny Feel: A New Miniature Tactile Module Using Elastic and Electromagnetic Force for Mobile Devices. IEICE Transactions on Information and Systems, 2010, E93-D, 2233-2242.	0.7	7
58	Trend & prospects of haptic technology in mobile devices. , 2010, , .		12
59	Small and lightweight tactile display(SaLT) and its application. , 2009, , .		35
60	Conceptual design of miniature tunable stiffness display using MR fluids. , 2009, , .		4
61	Development of a miniature pin-array tactile module using elastic and electromagnetic force for mobile devices. , 2009, , .		42
62	Applications of a miniature pin-array tactile module for a mobile device. , 2008, , .		3
63	Design of New Micro Actuator for Tactile Display. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14693-14698.	0.4	1
64	Implementing Compact Tactile Display for Fingertips with Multiple Vibrotactile Actuator and Thermoelectric Module. , 2007, , .		4
65	Conceptual design of new micro-actuator for tactile display. , 2007, , .		0
66	Compact Tactile Display for Fingertips with Multiple Vibrotactile Actuator and Thermoelectric Module. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	7