

Hyosang Lee

List of Publications by Year in descending order

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18
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1163117

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citing authors

#	ARTICLE	IF	CITATIONS
1	Soft Nanocomposite Based Multi-point, Multi-directional Strain Mapping Sensor Using Anisotropic Electrical Impedance Tomography. <i>Scientific Reports</i> , 2017, 7, 39837.	3.3	90
2	A biomimetic elastomeric robot skin using electrical impedance and acoustic tomography for tactile sensing. <i>Science Robotics</i> , 2022, 7, .	17.6	61
3	Low-hysteresis and low-interference soft tactile sensor using a conductive coated porous elastomer and a structure for interference reduction. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 541-550.	4.1	25
4	Estimation of flexible needle deflection in layered soft tissues with different elastic moduli. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 729-740.	2.8	19
5	Design of an optical soft sensor for measuring fingertip force and contact recognition. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 16-24.	2.7	19
6	An ERT-based Robotic Skin with Sparsely Distributed Electrodes: Structure, Fabrication, and DNN-based Signal Processing. , 2020, , .		19
7	Printable skin adhesive stretch sensor for measuring multi-axis human joint angles. , 2016, , .		17
8	Dispenser printing of piezo-resistive nanocomposite on woven elastic fabric and hysteresis compensation for skin-mountable stretch sensing. <i>Smart Materials and Structures</i> , 2018, 27, 025017.	3.5	16
9	Internal Array Electrodes Improve the Spatial Resolution of Soft Tactile Sensors Based on Electrical Resistance Tomography. , 2019, , .		16
10	Adaptive Optimal Measurement Algorithm for ERT-Based Large-Area Tactile Sensors. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 304-314.	5.8	11
11	Piezoresistive textile layer and distributed electrode structure for soft whole-body tactile skin. <i>Smart Materials and Structures</i> , 2021, 30, 085036.	3.5	10
12	Development of an MR-compatible hand exoskeleton that is capable of providing interactive robotic rehabilitation during fMRI imaging. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 261-272.	2.8	8
13	Predicting the Force Map of an ERT-Based Tactile Sensor Using Simulation and Deep Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2023, 20, 425-439.	5.2	8
14	Robotic system for hybrid diagnosis of prostate cancer: Design and experimentation. , 2011, , .		6
15	Investigation of a tolerable time delay in SEMG-based elbow assistive device. , 2014, , .		4
16	A Large-Scale Fabric-Based Tactile Sensor Using Electrical Resistance Tomography. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 107-109.	0.4	2
17	Localization of abnormality using finite element modeling of prostate glands with robotic system: A preliminary study. , 2012, , .		0
18	Investigation of the Effect of Weighting between sEMG and Interaction Force in Intention Extraction for the Control of an Upper-Limb Assistive Device. <i>Journal of Medical Robotics Research</i> , 2017, 02, 1740005.	1.2	0