

Heba Khamis

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

481
citations

933447

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h-index

996975

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g-index

22
all docs

22
docs citations

22
times ranked

523
citing authors

#	ARTICLE	IF	CITATIONS
1	Submillimeter Lateral Displacement Enables Friction Sensing and Awareness of Surface Slipperiness. IEEE Transactions on Haptics, 2022, 15, 20-25.	2.7	3
2	Estimating Lower Limb Kinematics Using a Reduced Wearable Sensor Count. IEEE Transactions on Biomedical Engineering, 2021, 68, 1293-1304.	4.2	37
3	Friction sensing mechanisms for perception and motor control: passive touch without sliding may not provide perceivable frictional information. Journal of Neurophysiology, 2021, 125, 809-823.	1.8	15
4	Real-time Friction Estimation for Grip Force Control. , 2021, , .		11
5	Modeling the Optical Sensing Principle of the PapillArray Tactile Sensor. , 2021, , .		1
6	Live Demonstration: Dynamic Grip-force Control using Real-time Friction Estimation from Incipient Slip Events. , 2020, , .		1
7	A novel optical 3D force and displacement sensor “Towards instrumenting the PapillArray tactile sensor. Sensors and Actuators A: Physical, 2019, 291, 174-187.	4.1	33
8	PapillArray: An incipient slip sensor for dexterous robotic or prosthetic manipulation “ design and prototype validation. Sensors and Actuators A: Physical, 2018, 270, 195-204.	4.1	26
9	Detection of Atrial Fibrillation from RR Intervals and PQRST Morphology using a Neural Network Ensemble. , 2018, 2018, 5998-6001.		7
10	Tactile Sensors for Friction Estimation and Incipient Slip Detection“Toward Dexterous Robotic Manipulation: A Review. IEEE Sensors Journal, 2018, 18, 9049-9064.	4.7	130
11	Single camera multi-view anthropometric measurement of human height and mid-upper arm circumference using linear regression. PLoS ONE, 2018, 13, e0195600.	2.5	8
12	Computationally Efficient Adaptive Error-State Kalman Filter for Attitude Estimation. IEEE Sensors Journal, 2018, 18, 9332-9342.	4.7	44
13	QRS Detection Algorithm for Telehealth Electrocardiogram Recordings. IEEE Transactions on Biomedical Engineering, 2016, 63, 1377-1388.	4.2	87
14	An Eight-Legged Tactile Sensor to Estimate Coefficient of Static Friction: Improvements in Design and Evaluation. Lecture Notes in Computer Science, 2016, , 493-502.	1.3	1
15	The Bayesian Decoding of Force Stimuli from Slowly Adapting Type I Fibers in Humans. PLoS ONE, 2016, 11, e0153366.	2.5	1
16	Decoding tactile afferent activity to obtain an estimate of instantaneous force and torque applied to the fingerpad. Journal of Neurophysiology, 2015, 114, 474-484.	1.8	16
17	An eight-legged tactile sensor to estimate coefficient of static friction. , 2015, 2015, 4407-10.		8
18	Classification of Texture and Frictional Condition at Initial Contact by Tactile Afferent Responses. Lecture Notes in Computer Science, 2014, , 460-468.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Frequencyâ€‘moment signatures: A method for automated seizure detection from scalp EEG. Clinical Neurophysiology, 2013, 124, 2317-2327.	1.5	31
20	Decoding tactile sensation: Multiple regression analysis of monkey fingertip afferent mechanoreceptor population responses. , 2012, 2012, 4631-4.		3