Tapomayukh Bhattacharjee

List of Publications by Year
in descending order

31 papers	586 citations	1040056 9 h-index	1125743 13 g-index
31 all docs	31 docs citations	31 times ranked	529 citing authors

#	Article	IF	Citations
1	Older adults' acceptance of a robot for partner dance-based exercise. PLoS ONE, 2017, 12, e0182736.	2.5	64
2	Multimodal execution monitoring for anomaly detection during robot manipulation. , 2016, , .		54
3	Haptic classification and recognition of objects using a tactile sensing forearm. , 2012, , .		46
4	Small forces that differ with prior motor experience can communicate movement goals during human-human physical interaction. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 8.	4.6	44
5	Towards Robotic Feeding: Role of Haptics in Fork-Based Food Manipulation. IEEE Robotics and Automation Letters, 2019, 4, 1485-1492.	5.1	38
6	Evaluation by Expert Dancers of a Robot That Performs Partnered Stepping via Haptic Interaction. PLoS ONE, 2015, 10, e0125179.	2.5	31
7	Material Recognition from Heat Transfer given Varying Initial Conditions and Short-Duration Contact. , 0, , .		30
8	Multimodal Tactile Perception of Objects in a Real Home. IEEE Robotics and Automation Letters, 2018, 3, 2523-2530.	5.1	27
9	Tactile sensing over articulated joints with stretchable sensors. , 2013, , .		26
10	Transfer Depends on Acquisition: Analyzing Manipulation Strategies for Robotic Feeding. , 2019, , .		26
11	Is More Autonomy Always Better?. , 2020, , .		24
12	A force and thermal sensing skin for robots in human environments. Robotics and Autonomous Systems, 2017, 96, 1-14.	5.1	23
13	A Community-Centered Design Framework for Robot-Assisted Feeding Systems. , 2019, , .		18
14	Rapid categorization of object properties from incidental contact with a tactile sensing robot arm. , 2013, , .		16
15	Analytical and Psychophysical Comparison of Bilateral Teleoperators for Enhanced Perceptual Performance. IEEE Transactions on Industrial Electronics, 2014, 61, 6202-6212.	7.9	16
16	Inferring Object Properties with a Tactile-Sensing Array Given Varying Joint Stiffness and Velocity. International Journal of Humanoid Robotics, 2018, 15, 1750024.	1.1	15
17	Combining tactile sensing and vision for rapid haptic mapping. , 2015, , .		14
18	Adaptive Robot-Assisted Feeding: An Online Learning Framework for Acquiring Previously Unseen Food Items. , 2020, , .		13

#	Article	IF	Citations
19	Data-driven thermal recognition of contact with people and objects. , 2016, , .		10
20	Sensing Shear Forces During Food Manipulation: Resolving the Trade-Off Between Range and Sensitivity. , 2019, , .		10
21	Material Recognition via Heat Transfer Given Ambiguous Initial Conditions. IEEE Transactions on Haptics, 2021, 14, 885-896.	2.7	9
22	Control design for human-like reaching movements using redundancy in robot arm-trunk systems. International Journal of Control, Automation and Systems, 2011, 9, 1173-1186.	2.7	6
23	A CRF that combines touch and vision for haptic mapping. , 2016, , .		6
24	Benchmarking Structured Policies and Policy Optimization for Real-World Dexterous Object Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 478-485.	5.1	6
25	Effect of Scaling on the Performance and Stability of Teleoperation Systems Interacting with Soft Environments. Advanced Robotics, 2011, 25, 1577-1601.	1.8	3
26	Leveraging Post Hoc Context for Faster Learning in Bandit Settings with Applications in Robot-Assisted Feeding. , 2021, , .		3
27	Robot-Assisted Feeding: Generalizing Skewering Strategies Across Food Items onÂaÂPlate. Springer Proceedings in Advanced Robotics, 2022, , 427-442.	1.3	3
28	Towards Material Classification of Scenes Using Active Thermography. , 2018, , .		2
29	Telemanipulation with Chopsticks: Analyzing Human Factors in User Demonstrations. , 2020, , .		2
30	Balancing Efficiency and Comfort in Robot-Assisted Bite Transfer. , 2022, , .		1
31	Desk Organization: Effect of Multimodal Inputs on Spatial Relational Learning. , 2019, , .		0