Thomas George Thuruthel

List of Publications by Year
in descending order

33	1,749	623734	580821
papers	citations	14 h-index	25 g-index

35	35	35	1283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Manipulation of free-floating objects using Faraday flows and deep reinforcement learning. Scientific Reports, 2022, 12, 335.	3.3	2
2	Self-healing ionic gelatin/glycerol hydrogels for strain sensing applications. NPG Asia Materials, 2022, 14, .	7.9	59
3	Closing the Control Loop with Time-Variant Embedded Soft Sensors and Recurrent Neural Networks. Soft Robotics, 2022, 9, 1167-1176.	8.0	9
4	Autonomous dishwasher loading from cluttered trays using preâ€trained deep neural networks. Engineering Reports, 2021, 3, e12321.	1.7	3
5	3D Printable Sensorized Soft Gelatin Hydrogel for Multi-Material Soft Structures. IEEE Robotics and Automation Letters, 2021, 6, 5269-5275.	5.1	21
6	Using Redundant and Disjoint Time-Variant Soft Robotic Sensors for Accurate Static State Estimation. IEEE Robotics and Automation Letters, 2021, 6, 2099-2105.	5.1	19
7	Learning to stop: a unifying principle for legged locomotion in varying environments. Royal Society Open Science, 2021, 8, 210223.	2.4	3
8	Topological Study on the Design of Soft Strain Sensors for Simultaneous Multi-point Contact Localization. , 2021, , .		5
9	Editorial: Machine Learning Techniques for Soft Robots. Frontiers in Robotics and AI, 2021, 8, 726774.	3.2	4
10	A review on self-healing polymers for soft robotics. Materials Today, 2021, 47, 187-205.	14.2	150
11	Soft Self-Healing Fluidic Tactile Sensors with Damage Detection and Localization Abilities. Sensors, 2021, 21, 8284.	3.8	7
12	Improving Robotic Cooking Using Batch Bayesian Optimization. IEEE Robotics and Automation Letters, 2020, 5, 760-765.	5.1	27
13	A bistable soft gripper with mechanically embedded sensing and actuation for fast grasping. , 2020, , .		23
14	Drift-Free Latent Space Representation for Soft Strain Sensors. , 2020, , .		6
15	A Vision-Based Collocated Actuation-Sensing Scheme for a Compliant Tendon-Driven Robotic Hand. , 2020, , .		4
16	First-Order Dynamic Modeling and Control of Soft Robots. Frontiers in Robotics and AI, 2020, 7, 95.	3.2	28
17	Towards Growing Robots: A Piecewise Morphology-Controller Co-adaptation Strategy for Legged Locomotion. Lecture Notes in Computer Science, 2020, , 357-368.	1.3	2
18	Joint Entropy-Based Morphology Optimization of Soft Strain Sensor Networks for Functional Robustness. IEEE Sensors Journal, 2020, 20, 10801-10810.	4.7	18

#	Article	IF	Citations
19	Real World Bayesian Optimization Using Robots to Clean Liquid Spills. Lecture Notes in Computer Science, 2020, , 196-208.	1.3	1
20	Cerebellum-inspired approach for adaptive kinematic control of soft robots. , 2019, , .		11
21	Soft robot perception using embedded soft sensors and recurrent neural networks. Science Robotics, 2019, 4, .	17.6	383
22	Emergence of behavior through morphology: a case study on an octopus inspired manipulator. Bioinspiration and Biomimetics, 2019, 14, 034001.	2.9	8
23	Closed loop control of a braided-structure continuum manipulator with hybrid actuation based on learning models. , 2019, , .		4
24	Model-Based Reinforcement Learning for Closed-Loop Dynamic Control of Soft Robotic Manipulators. IEEE Transactions on Robotics, 2019, 35, 124-134.	10.3	228
25	Stable Open Loop Control of Soft Robotic Manipulators. IEEE Robotics and Automation Letters, 2018, 3, 1292-1298.	5.1	60
26	Control Strategies for Soft Robotic Manipulators: A Survey. Soft Robotics, 2018, 5, 149-163.	8.0	412
27	Induced Vibrations of Soft Robotic Manipulators for Controller Design and Stiffness Estimation. , 2018, , .		4
28	Modeling the Encoding of Saccade Kinematic Metrics in the Purkinje Cell Layer of the Cerebellar Vermis. Frontiers in Computational Neuroscience, 2018, 12, 108.	2.1	6
29	Learning dynamic models for open loop predictive control of soft robotic manipulators. Bioinspiration and Biomimetics, 2017, 12, 066003.	2.9	96
30	Learning Closed Loop Kinematic Controllers for Continuum Manipulators in Unstructured Environments. Soft Robotics, 2017, 4, 285-296.	8.0	84
31	Exploiting Morphology of a Soft Manipulator for Assistive Tasks. Lecture Notes in Computer Science, 2017, , 291-301.	1.3	6
32	Learning Global Inverse Kinematics Solutions for a Continuum Robot. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 47-54.	0.6	28
33	Learning Global Inverse Statics Solution for a Redundant Soft Robot. , 2016, , .		28