Yu Sun

List of Publications by Year
in descending order

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50 papers	904 citations	567281 15 h-index	642732 23 g-index
50 all docs	50 docs citations	50 times ranked	711 citing authors

#	Article	IF	Citations
1	A Comprehensive and Context-Sensitive Neonatal Pain Assessment Using Computer Vision. IEEE Transactions on Affective Computing, 2022, 13, 28-45.	8.3	24
2	OCRTOC: A Cloud-Based Competition and Benchmark for Robotic Grasping and Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 486-493.	5.1	21
3	Research Challenges and Progress in Robotic Grasping and Manipulation Competitions. IEEE Robotics and Automation Letters, 2022, 7, 874-881.	5.1	24
4	Approximate Task Tree Retrieval in a Knowledge Network for Robotic Cooking. IEEE Robotics and Automation Letters, 2022, 7, 11492-11499.	5.1	5
5	Multi-Object Grasping - Types and Taxonomy. , 2022, , .		4
6	Robot gaining accurate pouring skills through self-supervised learning and generalization. Robotics and Autonomous Systems, 2021, 136, 103692.	5.1	9
7	Multimodal spatio-temporal deep learning approach for neonatal postoperative pain assessment. Computers in Biology and Medicine, 2021, 129, 104150.	7.0	34
8	Multimodal neonatal procedural and postoperative pain assessment dataset. Data in Brief, 2021, 35, 106796.	1.0	12
9	Future roles of artificial intelligence in early pain management of newborns. Paediatric and Neonatal Pain, 2021, 3, 134-145.	1.7	12
10	Multi-Object Grasping â€“ Estimating the Number of Objects in a Robotic Grasp. , 2021, , .		8
11	Benchmarking Protocols for Evaluating Small Parts Robotic Assembly Systems. IEEE Robotics and Automation Letters, 2020, 5, 883-889.	5.1	38
12	First InvestigationÂinto the Use of Deep Learning for Continuous Assessment of Neonatal Postoperative Pain. , 2020, , .		2
13	Convolutional Neural Networks for Neonatal Pain Assessment. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2019, 1, 192-200.	4.4	16
14	Pain Assessment From Facial Expression: Neonatal Convolutional Neural Network (N-CNN). , 2019, , .		12
15	A dataset of daily interactive manipulation. International Journal of Robotics Research, 2019, 38, 879-886.	8.5	30
16	A Survey of Knowledge Representation in Service Robotics. Robotics and Autonomous Systems, 2019, 118, 13-30.	5.1	71
17	Accurate Pouring using Model Predictive Control Enabled by Recurrent Neural Network. , 2019, , .		7
18	Learning State-Dependent, Sensor Measurement Models for Localization. , 2019, , .		2

#	Article	IF	Citations
19	Harnessing the Power of Deep Learning Methods in Healthcare: Neonatal Pain Assessment from Crying Sound. , 2019, , .		5
20	Multi-Channel Neural Network for Assessing Neonatal Pain from Videos. , 2019, , .		14
21	A Review of Automated Pain Assessment in Infants: Features, Classification Tasks, and Databases. IEEE Reviews in Biomedical Engineering, 2018, 11, 77-96.	18.0	58
22	Toward Ubiquitous Assessment of Neonates' Health Condition. , 2018, , .		0
23	Automatic Infantsâ€™ Pain Assessment by Dynamic Facial Representation: Effects of Profile View, Gestational Age, Gender, and Race. Journal of Clinical Medicine, 2018, 7, 173.	2.4	17
24	Infants' Pain Recognition Based on Facial Expression: Dynamic Hybrid Descriptions. IEICE Transactions on Information and Systems, 2018, E101.D, 1860-1869.	0.7	5
25	Learning to pour. , 2017, , .		10
26	Automated Pain Assessment in Neonates. Lecture Notes in Computer Science, 2017, , 350-361.	1.3	18
27	Videoâ€based 3D reconstruction, laparoscope localization and deformation recovery for abdominal minimally invasive surgery: a survey. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 158-178.	2.3	55
28	Recent Data Sets on Object Manipulation: A Survey. Big Data, 2016, 4, 197-216.	3.4	29
29	Robotic grasping for instrument manipulations. , 2016, , .		7
30	An approach for automated multimodal analysis of infants' pain. , 2016, , .		31
31	Task-Oriented Grasp Planning Based on Disturbance Distribution. Springer Tracts in Advanced Robotics, 2016, , 577-592.	0.4	12
32	Task-based grasp quality measures for grasp synthesis. , 2015, , .		14
33	Grasp planning to maximize task coverage. International Journal of Robotics Research, 2015, , 027836491458388.	8.5	0
34	Pain assessment in infants: Towards spotting pain expression based on infants' facial strain. , 2015, , .		21
35	Grasp planning to maximize task coverage. International Journal of Robotics Research, 2015, 34, 1195-1210.	8.5	33
36	Grasp planning based on strategy extracted from demonstration. , 2014, , .		17

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37	Objectâ€“object interaction affordance learning. Robotics and Autonomous Systems, 2014, 62, 487-496.	5.1	27
38	Vesselness based feature extraction for endoscopic image analysis. , 2014, , .		6
39	Determining the benefit of human input in human-in-the-loop robotic systems. , 2013, , .		7
40	A wireless robotic video laparo-endoscope for minimal invasive surgery. , 2013, , .		1
41	Grasp mapping using locality preserving projections and kNN regression. , 2013, , .		7
42	Functional analysis of grasping motion. , 2013, , .		11
43	Learning grasping force from demonstration. , 2012, , .		38
44	MARVEL: A wireless Miniature Anchored Robotic Videoscope for Expedited Laparoscopy. , 2012, , .		27
45	5-D force control system for fingernail imaging calibration. , 2011, , .		11
46	Fingertip force and contact position and orientation sensor. , 2011, , .		1
47	Virtually transparent epidermal imagery for laparo-endoscopic single-site surgery. , 2011, 2011, 2107-10.		9
48	Vision-guided Robot System for Picking Objects by Casting Shadows. International Journal of Robotics Research, 2010, 29, 155-173.	8.5	35
49	3D force prediction using fingernail imaging with automated calibration. , 2010, , .		16
50	Estimation of Fingertip Force Direction With Computer Vision. IEEE Transactions on Robotics, 2009, 25, 1356-1369.	10.3	31