

# Christian Smith

## List of Publications by Year in descending order

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45  
papers

1,213  
citations

759233

12  
h-index

752698

20  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1132  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining Planning and Learning of Behavior Trees for Robotic Assembly. , 2022, , .		12
2	Ankle Joint Torque Estimation Using an EMG-Driven Neuromusculoskeletal Model and an Artificial Neural Network Model. IEEE Transactions on Automation Science and Engineering, 2021, 18, 564-573.	5.2	50
3	Weight Distribution of a Knee Exoskeleton Influences Muscle Activities During Movements. IEEE Access, 2021, 9, 91614-91624.	4.2	8
4	Modeling and control of a 4-ADOF upper-body exoskeleton with mechanically decoupled 3-D compliant arm-supports for improved-pHRI. Mechatronics, 2021, 73, 102406.	3.3	4
5	Modeling and Simulation of a Human Knee Exoskeleton's Assistive Strategies and Interaction. Frontiers in Neurorobotics, 2021, 15, 620928.	2.8	15
6	Learning Behavior Trees with Genetic Programming in Unpredictable Environments. , 2021, , .		19
7	On stability and performance of disturbance observer-based-dynamic load torque compensator for assistive exoskeleton: A hybrid approach. Mechatronics, 2020, 69, 102373.	3.3	5
8	Gait Phase Recognition Using Deep Convolutional Neural Network with Inertial Measurement Units. Biosensors, 2020, 10, 109.	4.7	27
9	Dual-Arm In-Hand Manipulation Using Visual Feedback. , 2019, , .		4
10	A survey of human shoulder functional kinematic representations. Medical and Biological Engineering and Computing, 2019, 57, 339-367.	2.8	27
11	Integrating Path Planning and Pivoting. , 2018, , .		2
12	Reliably Segmenting Motion Reversals of a Rigid-IMU Cluster Using Screw-Based Invariants. , 2018, , .		0
13	Disturbance observer based dynamic load torque compensator for assistive exoskeletons. Mechatronics, 2018, 54, 78-93.	3.3	17
14	In-hand manipulation using three-stages open loop pivoting. , 2017, , .		14
15	Segmenting humeral submovements using invariant geometric signatures. , 2017, , .		1
16	Invariant spatial parametrization of human thoracohumeral kinematics: A feasibility study. , 2016, , .		3
17	Whole Body Control of a Dual-Arm Mobile Robot Using a Virtual Kinematic Chain. International Journal of Humanoid Robotics, 2016, 13, 1550047.	1.1	10
18	Adaptive control for pivoting with visual and tactile feedback. , 2016, , .		23

#	ARTICLE	IF	CITATIONS
19	An Adaptive Control Approach for Opening Doors and Drawers Under Uncertainties. IEEE Transactions on Robotics, 2016, 32, 161-175.	10.3	31
20	Cooperative control of a serial-to-parallel structure using a virtual kinematic chain in a mobile dual-arm manipulation application. , 2015, , .		7
21	In-hand manipulation using gravity and controlled slip. , 2015, , .		26
22	Mapping human intentions to robot motions via physical interaction through a jointly-held object. , 2014, , .		11
23	Towards a unified behavior trees framework for robot control. , 2014, , .		117
24	Online contact point estimation for uncalibrated tool use. , 2014, , .		33
25	Dual Arm Manipulation using Constraint Based Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 311-319.	0.4	14
26	A model of handing interaction towards a pedestrian. , 2013, , .		0
27	Predicting slippage and learning manipulation affordances through Gaussian Process regression. , 2013, , .		8
28	Online kinematics estimation for active human-robot manipulation of jointly held objects. , 2013, , .		8
29	Model-free robot manipulation of doors and drawers by means of fixed-grasps. , 2013, , .		15
30	Integrating 3D features and virtual visual servoing for hand-eye and humanoid robot pose estimation. , 2013, , .		4
31	A Multi Objective Control approach to Online Dual Arm Manipulation1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 747-752.	0.4	12
32	Adaptive Force/Velocity control for opening unknown doors1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 753-758.	0.4	7
33	Optimal command ordering for serial link manipulators. , 2012, , .		4
34	Dual arm manipulationâ€”A survey. Robotics and Autonomous Systems, 2012, 60, 1340-1353.	5.1	391
35	A predictor for operator input for time-delayed teleoperation. Mechatronics, 2010, 20, 778-786.	3.3	25
36	A minimum jerk predictor for teleoperation with variable time delay. , 2009, , .		9

#	ARTICLE	IF	CITATIONS
37	Wiimote robot control using human motion models. , 2009, , .		19
38	Robot manipulators. IEEE Robotics and Automation Magazine, 2009, 16, 75-83.	2.0	8
39	Teleoperation for a ball-catching task with significant dynamics. Neural Networks, 2008, 21, 604-620.	5.9	10
40	Adapting Robot Behavior for Human-Robot Interaction. IEEE Transactions on Robotics, 2008, 24, 911-916.	10.3	109
41	Using COTS to Construct a High Performance Robot Arm. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	18
42	Minimum jerk based prediction of user actions for a ball catching task. , 2007, , .		12
43	Robot Behavior Adaptation for Human-Robot Interaction based on Policy Gradient Reinforcement Learning. Journal of the Robotics Society of Japan, 2006, 24, 820-829.	0.1	18
44	Design of a Control Strategy for Teleoperation of a Platform with Significant Dynamics. , 2006, , .		4
45	A Model of Distributional Handing Interaction for a Mobile Robot. , 0, , .		52