

Poster Number	Author Names	Title	Affiliation
1	Julian Morelli		LISC: Laboratory for Intelligent Systems and Controls
2	Walker Gosrich, Osman Dogan Yirmibesoglu, Dr. Yigit Menguc	A Novel Liquid Metal 3D Printer	Oregon State University, SUNY at Buffalo
3	Kai Weng Wong, Hadas Kress-Gazit	Need-based Coordination for Decentralized High-level Robot Control	Cornell University
4	Sahil Kejriwal, Rohan Kothari, Vishnu Sudheer Menon, Dr. Michael Gennert	Shadowmotion for Atlas	Worcester Polytechnic Institute
5	Melrose Roderick, James MacGlashan, Stefanie Tellex	Implementing the Deep Q-Network	Humans To Robots Laboratory, Brown University
6	Chien-Ming Huang	Creating Social Intelligence for Interactive Robot Systems	Yale University
7	Michael "Misha" Novitzky and Michael R. Benjamin	Aquaticus: a platform for human-robot teaming competitions	Massachusetts Institute of Technology
8	Jalil Modares, Farshad Ghanei, Nicholas Mastronarde, Karthik Dantu, Chase Murray	UB-ANC Planner: Energy Efficient Coverage Path Planning with Multiple Drones	University at Buffalo
9	Robert Paolini, Matthew T. Mason	Data-Driven Statistical Modeling of a Cube Regrasp	Carnegie Mellon University
10	Charuvahan Adhivarahan and Karthik Dantu	Relative Bearing Measurement using Channel State Information	University at Buffalo, State University of New York
11	Rohan Paul	Postdoctoral Associate	CSAIL, MIT
12	Lauren Bange, Sam Title, George Konidaris	Custom Breast Prosthetics using Depth Scanning	Duke University, Brown University
13	Alex Burka, Abhinav Rajvanshi, Sarah Allen, Siyao Hu, Stuart Helgeson, Shweta Krishnan, Yang Gao, Lisa Anne Hendricks, Trevor Darrell, and Katherine J. Kuchenbecker	Proton: A Visuo-Haptic Data Acquisition System for Robotic Learning of Surface Properties	University of Pennsylvania
14	Carlo Pinciroli and Giovanni Beltrame	Buzz: A Programming Language for Heterogeneous Robot Swarms	Worcester Polytechnic Institute and Polytechnique Montreal
15	Christoforos Mavrogiannis and Ross Knepper	Decentralized Multi-Agent Navigation Planning with Braids	Cornell University
16	Mauricio Moreyra	Undergraduate Researcher	Cornell University Robots in Groups Lab
17	Huichan Zhao	Soft Orthosis with Integrated Optical Strain Sensors and EMG Control	Cornell University
18	Zachary Manchester and Scott Kuindersma	DIRTREL: Tractable Robust Trajectory Optimization for Constrained Nonlinear Systems with Ellipsoidal Disturbance Sets	Harvard
19	Amirhossein H Memar, Ehsan T Esfahani	Design of A Novel Variable Stiffness Gripper	PhD candidate at UB, Assistant Professor at UB
20	Hemanth Manjunatha, Amirhossein Hajiagha Memar, and Ehsan Tarkesh Esfahani	Operator's cognitive state classification using Physiological signals in a simulated exploration task with multiple robots	University at Buffalo, The State University of New York
21	Qianli Ma, Sipu Ruan, Gregory S. Chirikjian	Path Planning for Poly-Ellipsoidal Humanoid Robots and Superquadric Obstacles	Johns Hopkins University
22	Jacob Arkin, Dr. Rohan Paul, Dr. Adrian Boteanu, Jack Valinsky, Dr. Nicholas Roy, Dr. Hadas Kress-Gazit, Dr. Thomas M. Howard	Computationally Efficient and Verifiable Grounding of Natural Language Instructions for Autonomous Robots	University of Rochester (Jacob Arkin, Jack Valinsky, Dr. Thomas M. Howard), Massachusetts Institute of Technology (Dr. Rohan Paul, Dr. Nicholas Roy), and Cornell University (Dr. Adrian Boteanu, Dr. Hadas Kress-Gazit)
23	Gangyuan Jing	An End-to-End System for Accomplishing Tasks with Modular Robots	Cornell University Sibley School of Mechanical and Aerospace Engineering
24	Lihong Lao	Design of Tough Hydrogel as an Engineering Material for Simulating Arterial Plaque	Cornell University
25	Jalil Modares, Nicholas Mastronarde, Karthik Dantu	UB-ANC Emulator: An Emulation Framework for Multi-Agent Drone Networks	University at Buffalo
26	Olivier Mangin	Dr	Yale University
27	Yuzuko C. Nakamura, Carol A. O'Sullivan, Nancy S. Pollard	Grasp poses found in a bowl transport task	Carnegie Mellon University, Disney Research, Trinity College Dublin
28	Cynthia Sung, Adriana Schulz, Andrew Spielberg, Wei Zhao, Yu Cheng, Eitan Grinspun, Daniela Rus, Wojciech Matusik	Interactive Robogami: Computational Design of Foldable Robots with Ground Locomotion	MIT Computer Science and Artificial Intelligence Laboratory, Columbia University Computer Science Department

29	Yuyang Chen / Advisor: Karthik Dantu	Simulating RoboBee Flight Dynamics Using a Quadrotor	SUNY at Buffalo/ Computer Science & Engineering Department
30	Nakul Gopalan, Marie desJardins, Michael L. Littman, James MacGlashan, Shawn Squire, Stefanie Tellex, John Winder, Lawson L.S. Wong	Planning with Abstract Markov Decision Processes	Brown University & UMBC
31	Scott Hamill, Bryan Peele, Peter Ferenz, Robert Shepherd, and Hadas Kress-Gazit	Gait Synthesis for Modular Soft Robots	Cornell University
32	Benjamin Burchfiel and George Konidaris	Generalized 3D Object Representation using Bayesian Eigenobjects	Duke University and Brown University
33	Alessandro Roncone	Transparent Role Assignment and Task Allocation in Human Robot Collaboration	Yale University
34	William Abajian, Lawrence Chen, Eugene Ng, Kirsten Petersen	Spider-inspired pneumatic joints for jumping robots	Cornell University
35	Zakieh Sadat Hashemifar, Ben Grocholsky	Distributed Co-operative Tunnel Mapping with Limited Communication	University at Buffalo, Near Earth Autonomy
36	Gabriel Zimmerman, Alex Pomerenk, Arjan Singh, Thomas Augenstein	Sail-Vane: Controlled sail and tail robotic sailboat	Cornell University
37	Arundathi Sharma, Olav Imsdahl, William Murphy, Kyle Fenske, Pehuen Moure, Hongyi Deng, Haoyun Xu, Michelle O'Bryan, Dylan Meehan, Scott Bolt, Kenneth Fang, Hayley Sopko, Frances Bryson, Andy Ruina	Towards a Record-Breaking Robotically-Stabilized Bicycle	Cornell University Autonomous Bicycle Team (undergraduate project team)
38	Reuben M. Aronson, Ankit Bhatia, Zhenzhong Jia, Mathieu Guillaume-Bert, David Bourne, Artur Dubrawski, and Matthew T. Mason	Data-Driven Classification of Screwdriving Operations	Robotics Institute, Carnegie Mellon University
39	Michael DeFilippo, Michael Sacarny	REX 4: An Autonomous Surface Vessel for Marine Research	MIT Sea Grant AUV Lab
40	Lihong Lao	Design of Tough Hydrogel as an Engineering Material for Simulating Arterial Plaque	Cornell University
41	Bryan Peele, Chris Larson, Shuo Li, Sanlin Robinson, Massimo Totaro, Lucia Beccai, Barbara Mazzolai, Robert Shepherd	Highly Stretchable Electroluminescent Skin for Optical Signaling and Tactile Sensing	Sibley School of Mechanical & Aerospace Engineering, Cornell University
42	Michael Napoli, Harel Biggie, Thomas Howard	Adaptive motion planning for mobile robot navigation	University of Rochester
43	David St-Onge and Giovanni Beltrame	Dr.	École Polytechnique de Montréal
44	Nima Fazeli, Evan Drumwright, Alberto Rodriguez	Empirical Evaluation of Common Impact Models on a Planar Impact Task	MIT
45	Robert MacCurdy, Daniela Rus	Printable Hydraulics - Fabricating Assembly-free Robots via Additive Manufacturing	MIT, CSAIL
46	Peter Yu	More than a Million Ways to Be Pushed. A High-Fidelity Experimental Dataset of Planar Pushing	MIT
47	Yuyang Chen/Advisor:Karthik Dantu	Enabling Control-algorithm Development for Robobee using a quadrotor experimental platform	University at Buffalo/Computer Science & Engineering
48	Chris Larson	A learning framework for input recognition in soft user interfaces	Cornell University
49	Gabriel Culbertson, Solace Shen, Malte Jung	Supporting conversations between language learners and native speakers with a social robot	Cornell University
50	Andrew Spielberg, Brandon Araki, Cynthia Sung, Russ Tedrake, Daniela Rus	Functional Co-Optimization Of Articulated Robots	Massachusetts Institute of Technology
51	Brayden Hollis, Stacy Patterson, and Jeff Trinkle	Compressed Sensing for Scalable Robotic Tactile Skins	Rensselaer Polytechnic Institute
52	Vighnesh Vatsal, Guy Hoffman	Interacting with a wearable robotic forearm	Cornell University
53	Zakieh Sadat Hashemifar, Kyung Won Lee	Consistent Cuboid Detection for Semantic Mapping	SUNY Buffalo
54	Andrew Cunningham	BOW, an Assistive Robot for Quadriplegics	Rensselaer Polytechnic Institute
55	Manomit Bal, Karthik Dantu	Panoptes: Open-source Multi-Camera Tracking System	University at Buffalo, State University of New York
56	Yifan	Robust Planar Dynamic Pivoting by Regulating Inertial and Gripping Forces	Manipulation Lab, Carnegie Mellon University
57	Hristiyan Kourtev, Zacharias Psarakis, Kostas E. Bekris	Evaluating End-Effector Modalities for Warehouse Picking	Rutgers University, The State University of New Jersey
58	Jiaji Zhou; Drew Bagnell; Matt Mason	PhD Student	CMU RI
59	Barrett Ames	Trac-IK	Duke University