

Goldie Nejat

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

2,555
citations

257450

24
h-index

243625

44
g-index

106
all docs

106
docs citations

106
times ranked

2086
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Reinforcement Learning Robot for Search and Rescue Applications: Exploration in Unknown Cluttered Environments. IEEE Robotics and Automation Letters, 2019, 4, 610-617.	5.1	202
2	Robotic Urban Search and Rescue: A Survey from the Control Perspective. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 72, 147-165.	3.4	193
3	How Robots Influence Humans: A Survey of Nonverbal Communication in Social Human-Robot Interaction. International Journal of Social Robotics, 2019, 11, 575-608.	4.6	151
4	Acceptance and Attitudes Toward a Human-like Socially Assistive Robot by Older Adults. Assistive Technology, 2014, 26, 140-150.	2.0	120
5	A Multirobot Path-Planning Strategy for Autonomous Wilderness Search and Rescue. IEEE Transactions on Cybernetics, 2015, 45, 1784-1797.	9.5	91
6	Meal-Time with a Socially Assistive Robot and Older Adults at a Long-term Care Facility. Journal of Human-robot Interaction, 2013, 2, 152-171.	2.0	86
7	A Survey of Autonomous Human Affect Detection Methods for Social Robots Engaged in Natural HRI. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 101-133.	3.4	79
8	Brian 2.1: A socially assistive robot for the elderly and cognitively impaired. IEEE Robotics and Automation Magazine, 2013, 20, 74-83.	2.0	75
9	Multirobot Cooperative Learning for Semiautonomous Control in Urban Search and Rescue Applications. Journal of Field Robotics, 2016, 33, 512-536.	6.0	73
10	A Learning-Based Semi-Autonomous Controller for Robotic Exploration of Unknown Disaster Scenes While Searching for Victims. IEEE Transactions on Cybernetics, 2014, 44, 2719-2732.	9.5	71
11	Recognizing Emotional Body Language Displayed by a Human-like Social Robot. International Journal of Social Robotics, 2014, 6, 261-280.	4.6	66
12	Promoting Interactions Between Humans and Robots Using Robotic Emotional Behavior. IEEE Transactions on Cybernetics, 2016, 46, 2911-2923.	9.5	54
13	Robot Navigation of Environments with Unknown Rough Terrain Using deep Reinforcement Learning. , 2018, , .		45
14	Social Robots and Seniors: A Comparative Study on the Influence of Dynamic Social Features on Human-Robot Interaction. International Journal of Social Robotics, 2019, 11, 5-24.	4.6	43
15	A Multimodal Emotional Human-Robot Interaction Architecture for Social Robots Engaged in Bidirectional Communication. IEEE Transactions on Cybernetics, 2021, 51, 5954-5968.	9.5	43
16	Learning and Personalizing Socially Assistive Robot Behaviors to Aid with Activities of Daily Living. ACM Transactions on Human-Robot Interaction, 2018, 7, 1-25.	4.1	42
17	The search for survivors: Cooperative human-robot interaction in search and rescue environments using semi-autonomous robots. , 2010, , .		39
18	Socially Assistive Robots Helping Older Adults through the Pandemic and Life after COVID-19. Robotics, 2021, 10, 106.	3.5	38

#	ARTICLE	IF	CITATIONS
19	A Sim-to-Real Pipeline for Deep Reinforcement Learning for Autonomous Robot Navigation in Cluttered Rough Terrain. IEEE Robotics and Automation Letters, 2021, 6, 6569-6576.	5.1	34
20	Target-Motion Prediction for Robotic Search and Rescue in Wilderness Environments. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1287-1298.	5.0	33
21	A Social Robot Learning to Facilitate an Assistive Group-Based Activity from Non-expert Caregivers. International Journal of Social Robotics, 2020, 12, 1159-1176.	4.6	31
22	Human Body Pose Interpretation and Classification for Social Human-Robot Interaction. International Journal of Social Robotics, 2011, 3, 313-332.	4.6	30
23	Mixed-Integer and Constraint Programming Techniques for Mobile Robot Task Planning. IEEE Robotics and Automation Letters, 2016, 1, 500-507.	5.1	30
24	Assistive Robots in Health Care Settings. Home Health Care Management and Practice, 2009, 21, 177-187.	1.0	29
25	Social Intelligence for a Robot Engaging People in Cognitive Training Activities. International Journal of Advanced Robotic Systems, 2012, 9, 113.	2.1	29
26	Exoskeleton use in post-stroke gait rehabilitation: a qualitative study of the perspectives of persons post-stroke and physiotherapists. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 123.	4.6	26
27	3-D Active Sensing in Time-Critical Urban Search and Rescue Missions. IEEE/ASME Transactions on Mechatronics, 2012, 17, 1111-1119.	5.8	24
28	A focus group study on the design considerations and impressions of a socially assistive robot for long-term care. , 2014, , .		24
29	It Would Make Me Happy if You Used My Guess: Comparing Robot Persuasive Strategies in Social Human-Robot Interaction. IEEE Robotics and Automation Letters, 2019, 4, 1707-1714.	5.1	24
30	Aerial Wilderness Search and Rescue with Ground Support. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 99, 147-163.	3.4	24
31	A novel 3D sensory system for robot-assisted mapping of cluttered urban search and rescue environments. Intelligent Service Robotics, 2011, 4, 119-134.	2.6	23
32	Casper: An Assistive Kitchen Robot to Promote Aging in Place1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	23
33	A Dynamic Approach to Sensor Network Deployment for Mobile-Target Detection in Unstructured, Expanding Search Areas. IEEE Sensors Journal, 2016, 16, 4405-4417.	4.7	23
34	You Are Doing Great! Only One Rep Left: An Affect-Aware Social Robot for Exercising. , 2019, , .		22
35	Investigating Strategies for Robot Persuasion in Social Human-Robot Interaction. IEEE Transactions on Cybernetics, 2022, 52, 641-653.	9.5	20
36	The Design of an Interactive Assistive Kitchen System. Assistive Technology, 2012, 24, 246-258.	2.0	19

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37	Multi-UAV based Autonomous Wilderness Search and Rescue using Target Iso-Probability Curves. , 2019, , .		19
38	Persuasive robots should avoid authority: The effects of formal and real authority on persuasion in human-robot interaction. Science Robotics, 2021, 6, eabd5186.	17.6	19
39	Optimal deployment of robotic teams for autonomous wilderness search and rescue. , 2011, , .		18
40	An autonomous assistive robot for planning, scheduling and facilitating multi-user activities. , 2014, , .		18
41	mROBerTO: A modular millirobot for swarm-behavior studies. , 2016, , .		18
42	A user-study with Tangy the Bingo facilitating robot and long-term care residents. , 2016, , .		18
43	The robot Tangy facilitating Trivia games: A team-based user-study with long-term care residents. , 2017, , .		18
44	A Hybrid Strategy for Target Search Using Static and Mobile Sensors. IEEE Transactions on Cybernetics, 2020, 50, 856-868.	9.5	18
45	Spatiotemporal Adaptive Optimization of a Static-Sensor Network via a Non-Parametric Estimation of Target Location Likelihood. IEEE Sensors Journal, 2017, 17, 1479-1492.	4.7	16
46	Personalized clothing recommendation by a social robot. , 2017, , .		16
47	Robot exploration in unknown cluttered environments when dealing with uncertainty. , 2017, , .		16
48	User Affect Elicitation with a Socially Emotional Robot. Robotics, 2020, 9, 44.	3.5	16
49	Classifying a Personâ€™s Degree of Accessibility From Natural Body Language During Social Humanâ€“Robot Interactions. IEEE Transactions on Cybernetics, 2017, 47, 524-538.	9.5	15
50	Promoting engagement in cognitively stimulating activities using an intelligent socially assistive robot. , 2010, , .		14
51	DESIGNING INTELLIGENT SOCIALLY ASSISTIVE ROBOTS AS EFFECTIVE TOOLS IN COGNITIVE INTERVENTIONS. International Journal of Humanoid Robotics, 2011, 08, 103-126.	1.1	13
52	Robots Asking for Favors: The Effects of Directness and Familiarity on Persuasive HRI. IEEE Robotics and Automation Letters, 2021, 6, 1793-1800.	5.1	13
53	Affect detection from body language during social HRI. , 2012, , .		12
54	MULTI-ROBOT DEPLOYMENT FOR WILDERNESS SEARCH AND RESCUE. International Journal of Robotics and Automation, 2016, 31, .	0.1	12

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55	Learning based semi-autonomous control for robots in urban search and rescue. , 2012, , .		11
56	Design and implementation of a millirobot for swarm studies â€œ<i>mROBerTO</i>. Robotica, 2018, 36, 1591-1612.	1.9	11
57	Person Finding: An Autonomous Robot Search Method for Finding Multiple Dynamic Users in Human-Centered Environments. IEEE Transactions on Automation Science and Engineering, 2020, 17, 433-449.	5.2	11
58	A victim identification methodology for rescue robots operating in cluttered USAR environments. Advanced Robotics, 2013, 27, 373-384.	1.8	10
59	Robot Cooperative Behavior Learning Using Single-Shot Learning From Demonstration and Parallel Hidden Markov Models. IEEE Robotics and Automation Letters, 2019, 4, 193-200.	5.1	10
60	mROBerTO 2.0 â€œ An Autonomous Millirobot With Enhanced Locomotion for Swarm Robotics. IEEE Robotics and Automation Letters, 2020, 5, 962-969.	5.1	10
61	A model-free deep reinforcement learning approach for control of exoskeleton gait patterns. Robotica, 2022, 40, 2189-2214.	1.9	10
62	An Interdisciplinary Team for the Design and Integration of Assistive Robots in Health Care Applications. Home Health Care Management and Practice, 2010, 22, 104-110.	1.0	9
63	Determining the affective body language of older adults during socially assistive HRI. , 2014, , .		9
64	A supervisory control method for multi-robot task allocation in urban search and rescue. , 2015, , .		9
65	A learning from demonstration system architecture for robots learning social group recreational activities. , 2016, , .		9
66	Vehicle Routing for Resource Management in Time-Phased Deployment of Sensor Networks. IEEE Transactions on Automation Science and Engineering, 2019, 16, 716-728.	5.2	9
67	The adoption of socially assistive robots for long-term care: During COVID-19 and in a post-pandemic society. Healthcare Management Forum, 2022, 35, 301-309.	1.4	9
68	Playing a memory game with a socially assistive robot: A case study at a long-term care facility. , 2012, , .		8
69	A Socially Assistive Robot for Meal-Time Cognitive Interventions. Journal of Medical Devices, Transactions of the ASME, 2012, 6, .	0.7	8
70	Robot Imitation Learning of Social Gestures with Self-Collision Avoidance Using a 3D Sensor. Sensors, 2018, 18, 2355.	3.8	8
71	An analysis of design recommendations for socially assistive robot helpers for effective human-robot interactions in senior care. Journal of Rehabilitation and Assistive Technologies Engineering, 2022, 9, 205566832211013.	0.9	8
72	A learning-based control architecture for an assistive robot providing social engagement during cognitively stimulating activities. , 2011, , .		7

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73	A Socially Assistive Robot That Can Monitor Affect of the Elderly During Mealtime Assistance ¹ . Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	7
74	Tangy the Robot Bingo Facilitator: A Performance Review ¹ . Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	7
75	A Robot Architecture Using ContextSLAM to Find Products in Unknown Crowded Retail Environments. Robotics, 2021, 10, 110.	3.5	7
76	End-to-End Deep Reinforcement Learning for Exoskeleton Control. , 2020, , .		7
77	Intelligent Sensing Systems for Rescue Robots: Landmark Identification and Three-Dimensional Mapping of Unknown Cluttered Urban Search and Rescue Environments. Advanced Robotics, 2009, 23, 1179-1198.	1.8	6
78	A two-dimensional facial-affect estimation system for human-robot interaction using facial expression parameters. Advanced Robotics, 2013, 27, 259-273.	1.8	6
79	A high-performance millirobot for swarm-behaviour studies: Swarm-topology estimation. International Journal of Advanced Robotic Systems, 2019, 16, 172988141989212.	2.1	6
80	Using Deep Learning to Find Victims in Unknown Cluttered Urban Search and Rescue Environments. Current Robotics Reports, 2020, 1, 105-115.	7.9	6
81	A guidance-based motion-planning methodology for the docking of autonomous vehicles. Journal of Field Robotics, 2005, 22, 779-793.	0.7	5
82	A multi-robot sensor-delivery planning strategy for static-sensor networks. , 2017, , .		5
83	A robot emotion model with history. , 2017, , .		5
84	Hybrid Hierarchical Learning for Adaptive Persuasion in Human-Robot Interaction. IEEE Robotics and Automation Letters, 2022, 7, 5520-5527.	5.1	5
85	Robot-assisted intelligent 3D mapping of unknown cluttered search and rescue environments. , 2008, , .		4
86	On-line task allocation for the robotic interception of multiple targets in dynamic settings. , 2010, , .		4
87	Did Anyone Say BINGO: A Socially Assistive Robot to Promote Stimulating Recreational Activities at Long-Term Care Facilities. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	4
88	Generic design methodology for the development of three-dimensional structured-light sensory systems for measuring complex objects. Optical Engineering, 2014, 53, 112210.	1.0	4
89	A graphical user interface for multi-robot control in urban search and rescue applications. , 2016, , .		4
90	A neural-network approach to high-precision docking of autonomous vehicles/platforms. Robotica, 2007, 25, 479-492.	1.9	3

#	ARTICLE	IF	CITATIONS
91	Minimizing task-induced stress in cognitively stimulating activities using an intelligent socially assistive robot. , 2011, , .		3
92	An adaptive static-sensor network deployment strategy for detecting mobile targets. , 2016, , .		3
93	An inchworm-inspired motion strategy for robotic swarms. Robotica, 2021, 39, 2283-2305.	1.9	3
94	A Framework for Mapping and Controlling Exoskeleton Gait Patterns in Both Simulation and Real-World. , 2020, , .		3
95	Short-range guidance of autonomous vehiclesâ€”a comparative study. Robotics and Computer-Integrated Manufacturing, 2005, 21, 401-411.	9.9	2
96	Affective Voice Recognition of Older Adults1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	2
97	A Sensor-Network-Supported Mobile-Agent-Search Strategy for Wilderness Rescue. Robotics, 2019, 8, 61.	3.5	2
98	Directional-Sensor Network Deployment Planning for Mobile-Target Search. Robotics, 2020, 9, 82.	3.5	2
99	Wilderness Search for Lost Persons Using a Multimodal Aerial-Terrestrial Robot Team. Robotics, 2022, 11, 64.	3.5	2
100	Closed-Loop Motion Control of Robotic Swarms â€” A Tether-Based Strategy. IEEE Transactions on Robotics, 2022, 38, 3564-3581.	10.3	2
101	An active light sensory system for 3D mapping of unknown cluttered environments. , 2010, , .		1
102	A Multirobot Person Search System for Finding Multiple Dynamic Users in Human-Centered Environments. IEEE Transactions on Cybernetics, 2023, 53, 628-640.	9.5	1
103	On-line target-motion prediction for autonomous multirobot search in realistic terrains with time-expanding boundaries: A novel probabilistic approach. , 2010, , .		0
104	A socially assistive robot that can interpret affective body language during one-on-one human-robot interactions. International Journal of Biomechatronics and Biomedical Robotics, 2012, 2, 39.	0.2	0
105	AUTONOMOUS MULTI-TARGET INTERCEPTION IN DYNAMIC SETTINGS - ON-LINE PURSUER TASK ALLOCATION. International Journal on Smart Sensing and Intelligent Systems, 2013, 6, 1783-1807.	0.7	0
106	Optimal control of multi-input SMA actuator arrays using graph theory: Expanding wavefront & simultaneous operations. , 2011, , .		0