Michael A Goodrich

List of Publications by Year in Descending Order

77 papers	2,850 citations	23 h-index	52 g-index
93 ext. papers	3,369 ext. citations	3.7 avg, IF	5.25 L-index

#	Paper	IF	Citations
77	Processes for a Colony Solving the Best-of-N Problem Using a Bipartite Graph Representation. *Springer Proceedings in Advanced Robotics*, **2022**, 376-388	0.6	
76	Multi-human Management of Robotic Swarms. *Lecture Notes in Computer Science*, **2020**, 603-619	0.9	2
75	Transparency: Transitioning From Human Machine Systems to Human-Swarm Systems. *Journal of Cognitive Engineering and Decision Making*, **2019**, 13, 171-195	2.5	17
74	Moderating Operator Influence in Human-Swarm Systems **2019**,		3
73	Cooperating with machines. *Nature Communications*, **2018**, 9, 233	17.4	70
72	Understanding Particle Swarm Optimization: A Component-Decomposition Perspective **2018**,		1
71	Haptic Shape-Based Management of Robot Teams in Cordon and Patrol **2017**,		2
70	Design and Evaluation of Adverb Palette **2017**,		3
69	Expressing homotopic requirements for mobile robot navigation through natural language instructions **2016**,		2
68	Toward haptic-based management of small swarms in cordon and patrol **2015**,		1
67	Hierarchical heuristic search using a Gaussian mixture model for UAV coverage planning. *IEEE Transactions on Cybernetics*, **2014**, 44, 2532-44	10.2	63
66	Supporting task-oriented collaboration in human-robot teams using semantic-based path planning **2014**,		2
65	Balancing human and inter-agent influences for shared control of bio-inspired collectives **2014**,		5
64	Informative path planning with a human path constraint **2014**,		4
63	Human-swarm interactions based on managing attractors **2014**,		18
62	Multi-robot perimeter-shaping through mediator-based swarm control **2013**,		6
61	Enabling clinicians to rapidly animate robots **2013**,		1

60	Teleoperation and Beyond for Assistive Humanoid Robots. *Reviews of Human Factors and Ergonomics*, **2013**, 9, 175-226		39
59	Toward Task-Based Mental Models of Human-Robot Teaming: A Bayesian Approach. *Lecture Notes in Computer Science*, **2013**, 267-276	0.9	9
58	Shaping Couzin-Like Torus Swarms through Coordinated Mediation **2013**,		9
57	A hierarchical flight planner for sensor-driven UAV missions **2013**,		3
56	Scalable Human Interaction with Robotic Swarms **2013**,		15
55	Multitasking and Multi-Robot Management **2013**,		2
54	Using camera-equipped mini-UAVS to support collaborative wilderness search and rescue teams **2012**,		9
53	Incorporating a robot into an autism therapy team. *IEEE Intelligent Systems*, **2012**, 27, 52-59	4.2	33
52	Supporting human interaction with robust robot swarms **2012**,		11
51	Color anomaly detection and suggestion for wilderness search and rescue **2012**,		7
50	**2012**,		1
49	Human Factors issues for Interaction with Bio-Inspired Swarms. *Proceedings of the Human Factors and Ergonomics Society*, **2012**, 56, 61-64	0.4	2
48	Abstraction and Persistence: Macro-Level Guarantees of Collective Bio-Inspired Teams under Human Supervision **2012**,		1
47	Human-Robot Teams Collaborating Socially, Organizationally, and Culturally. *Proceedings of the Human Factors and Ergonomics Society*, **2011**, 55, 465-469	0.4	8
46	Learning to compete, coordinate, and cooperate in repeated games using reinforcement learning. *Machine Learning*, **2011**, 82, 281-314	4	20
45	A case for low-dose robotics in autism therapy **2011**,		12
44	Perception by proxy **2011**,		5
43	Visual robot choreography for clinicians **2011**,		2

42	Toward human interaction with bio-inspired robot teams **2011**,		29
41	Beyond robot fan-out: Towards multi-operator supervisory control **2010**,		8
40	Detailed requirements for robots in autism therapy **2010**,		57
39	UAV video coverage quality maps and prioritized indexing for wilderness search and rescue **2010**,		16
38	Specialization, fan-out, and multi-human/multi-robot supervisory control **2010**,		1
37	A Bayesian approach to modeling lost person behaviors based on terrain features in Wilderness Search and Rescue. *Computational and Mathematical Organization Theory*, **2010**, 16, 300-323	2.1	40
36	UAV video coverage quality maps and prioritized indexing for wilderness search and rescue **2010**,		12
35	Cognitive Task Analysis for Developing Unmanned Aerial Vehicle Wilderness Search Support. *Journal of Cognitive Engineering and Decision Making*, **2009**, 3, 1-26	2.5	34
34	On using mixed-initiative control **2009**,		36
33	Towards using Unmanned Aerial Vehicles (UAVs) in Wilderness Search and Rescue. *Interaction Studies*, **2009**, 10, 453-478	1.3	39
32	UAV intelligent path planning for Wilderness Search and Rescue **2009**,		45
31	Image Resolution-Based Path Planning and Metrics for Exhaustive Area Search from Small UAVs **2009**,		2
30	Fused visible and infrared video for use in Wilderness Search and Rescue **2009**,		5
29	DEMONSTRATION-BASED BEHAVIOR PROGRAMMING FOR EMBODIED VIRTUAL AGENTS. *Computational Intelligence*, **2008**, 24, 235-256	2.5	8
28	Application and evaluation of spatiotemporal enhancement of live aerial video using temporally local mosaics **2008**,		8
27	Towards combining UAV and sensor operator roles in UAV-enabled visual search **2008**,		36
26	Supporting wilderness search and rescue using a camera-equipped mini UAV. *Journal of Field Robotics*, **2008**, 25, 89-110	6.7	219
25	Human-Robot Interaction: A Survey. *Foundations and Trends in Human-Computer Interaction*, **2007**, 1, 203-275	2.8	826

24	Managing autonomy in robot teams **2007**,		28
23	Ecological Interfaces for Improving Mobile Robot Teleoperation **2007**, 23, 927-941		151
22	Probabilistic Searching Using a Small Unmanned Aerial Vehicle **2007**,		11
21	Using a Mini-UAV to Support Wilderness Search and Rescue: Practices for Human-Robot Teaming **2007**,		27
20	Comparing the usefulness of video and map information in navigation tasks **2006**,		48
19	Integrating critical interface elements for intuitive single-display aviation control of UAVs **2006**, 6226, 100		1
18	Learning Real-Time A* Path Planner for Unmanned Air Vehicle Target Sensing. *Journal of Aerospace Computing, Information, and Communication*, **2006**, 3, 108-122		16
17	Testing the Usefulness of a Pan-Tilt-Zoom (PTZ) Camera in Human-Robot Interactions. *Proceedings of the Human Factors and Ergonomics Society*, **2006**, 50, 757-761	0.4	2
16	Common metrics for human-robot interaction **2006**,		331
15	Toward Human-Robot Interface Standards II: An Examination of Common Elements in Human-Robot Interactions Across the Space Enterprise **2006**,		6
14	Toward Human-Robot Interface Standards: Use of Standardization and Intelligent Subsystems for Advancing Human-Robotic Competency in Space Exploration **2006**,		4
13	Autonomous Vehicle Technologies for Small Fixed-Wing UAVs. *Journal of Aerospace Computing, Information, and Communication*, **2005**, 2, 92-108		205
12	Learning to compete, compromise, and cooperate in repeated general-sum games **2005**,		12
11	Towards Real-World Searching with Fixed-Wing Mini-UAVs **2005**,		8
10	Task Switching and Multi-Robot Teams **2005**, 185-195		21
9	How to trust robots further than we can throw them **2004**,		5
8	Learning Real-Time A* Path Planner for Sensing Closely-Spaced Targets from an Aircraft **2003**,		14
7	Satisficing Equilibria: A Non-Classical Theory of Games and Decisions. *Autonomous Agents and Multi-Agent Systems*, **2002**, 5, 305-328	2	32

6	Satisficing Equilibria. *Multiagent Systems, Artificial Societies, and Simulated Organizations*, **2002**, 235-265		1
5	Satisficing Revisited. *Minds and Machines*, **2000**, 10, 79-109	4.9	27
4	Designing human-centered automation: trade-offs in collision avoidance system design. *IEEE Transactions on Intelligent Transportation Systems*, **2000**, 1, 40-54	6.1	57
3	Satisficing games. *Information Sciences*, **1999**, 114, 255-280	7.7	14
2	Model predictive satisficing fuzzy logic control. *IEEE Transactions on Fuzzy Systems*, **1999**, 7, 319-332	8.3	11
1	What Types of Interactions do Bio-Inspired Robot Swarms and Flocks Afford a Human?		8