Stephen J Guy

List of Publications by Year
in descending order

24 papers	2,093 citations	687363 13 h-index	940533 16 g-index
24 all docs	24 docs citations	24 times ranked	1518 citing authors

#	Article	IF	Citations
1	Reciprocal n-Body Collision Avoidance. Springer Tracts in Advanced Robotics, 2011, , 3-19.	0.4	890
2	The Hybrid Reciprocal Velocity Obstacle. IEEE Transactions on Robotics, 2011, 27, 696-706.	10.3	306
3	Universal Power Law Governing Pedestrian Interactions. Physical Review Letters, 2014, 113, 238701.	7.8	239
4	ClearPath. , 2009, , .		205
5	BRVO: Predicting pedestrian trajectories using velocity-space reasoning. International Journal of Robotics Research, 2015, 34, 201-217.	8.5	71
6	Velocity-based modeling of physical interactions in dense crowds. Visual Computer, 2015, 31, 541-555.	3.5	57
7	Implicit crowds. ACM Transactions on Graphics, 2017, 36, 1-13.	7.2	54
8	Least-effort trajectories lead to emergent crowd behaviors. Physical Review E, 2012, 85, 016110.	2.1	49
9	A Data€Driven Framework for Visual Crowd Analysis. Computer Graphics Forum, 2014, 33, 41-50.	3.0	39
10	Dynamic properties of successful smiles. PLoS ONE, 2017, 12, e0179708.	2.5	31
11	A Method for Using Player Tracking Data in Basketball to Learn Player Skills and Predict Team Performance. PLoS ONE, 2015, 10, e0136393.	2.5	22
12	Stochastic Tree Search with Useful Cycles for patrolling problems. , 2015, , .		20
13	C-OPT: Coverage-Aware Trajectory Optimization Under Uncertainty. IEEE Robotics and Automation Letters, 2016, 1, 1020-1027.	5.1	19
14	Crowd space. ACM Transactions on Graphics, 2018, 37, 1-14.	7.2	19
15	Predicting Perceived Disfigurement from Facial Function in Patients with Unilateral Paralysis. Plastic and Reconstructive Surgery, 2018, 142, 722e-728e.	1.4	17
16	Prioritized group navigation with Formation Velocity Obstacles. , 2015, , .		13
17	Evaluating collision avoidance effects on discomfort in virtual environments. , 2017, , .		12
18	ALAN: adaptive learning for multi-agent navigation. Autonomous Robots, 2018, 42, 1543-1562.	4.8	10

#	Article	IF	Citations
19	C-Nav: Distributed coordination in crowded multi-agent navigation. Robotics and Autonomous Systems, 2020, 133, 103631.	5.1	10
20	Coordinating Multi-Agent Navigation by Learning Communication. Proceedings of the ACM on Computer Graphics and Interactive Techniques, 2019, 2, 1-17.	1.6	4
21	Anytime navigation with Progressive Hindsight optimization. , 2014, , .		3
22	SPNets: Human-like Navigation Behaviors with Uncertain Goals. , 2020, , .		3
23	Object-Centric Parallel Rigid Body Simulation With Timewarp. , 2013, , .		0
24	Multiworld Motion Planning. IEEE Robotics and Automation Letters, 2018, 3, 3968-3974.	5.1	0