

Gregory Dudek

List of Publications by Year in descending order

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55
papers

1,587
citations

840776

11
h-index

1125743

13
g-index

55
all docs

55
docs citations

55
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning Goal Conditioned Socially Compliant Navigation From Demonstration Using Risk-Based Features. IEEE Robotics and Automation Letters, 2021, 6, 651-658.	5.1	9
2	Trajectory-Constrained Deep Latent Visual Attention for Improved Local Planning in Presence of Heterogeneous Terrain. , 2021, , .		1
3	Dynamic planning of redundant robots within a set-based task-priority inverse kinematics framework. , 2020, , .		4
4	Learning to Drive Off Road on Smooth Terrain in Unstructured Environments Using an On-Board Camera and Sparse Aerial Images. , 2020, , .		20
5	One-Shot Informed Robotic Visual Search in the Wild. , 2020, , .		4
6	Visual identification of biological motion for underwater human-robot interaction. Autonomous Robots, 2018, 42, 111-124.	4.8	2
7	Synthesizing Neural Network Controllers with Probabilistic Model-Based Reinforcement Learning. , 2018, , .		6
8	GPU-Assisted Learning on an Autonomous Marine Robot for Vision-Based Navigation and Image Understanding. , 2018, , .		11
9	Synthetically Trained 3D Visual Tracker of Underwater Vehicles. , 2018, , .		10
10	Heterogeneous Multi-Robot System for Exploration and Strategic Water Sampling. , 2018, , .		36
11	Robotic Coral Reef Health Assessment Using Automated Image Analysis. Journal of Field Robotics, 2017, 34, 170-187.	6.0	20
12	Underwater multi-robot convoying using visual tracking by detection. , 2017, , .		38
13	Data-driven selective sampling for marine vehicles using multi-scale paths. , 2017, , .		11
14	Collaborative Sampling Using Heterogeneous Marine Robots Driven by Visual Cues. , 2017, , .		11
15	Subsea Fauna Enumeration Using Vision-Based Marine Robots. , 2016, , .		2
16	Efficient Terrain Driven Coral Coverage Using Gaussian Processes for Mosaic Synthesis. , 2016, , .		14
17	Fast and efficient rendezvous in street networks. , 2016, , .		2
18	Maintaining efficient collaboration with trust-seeking robots. , 2016, , .		12

#	ARTICLE	IF	CITATIONS
19	Modeling curiosity in a mobile robot for long-term autonomous exploration and monitoring. <i>Autonomous Robots</i> , 2016, 40, 1267-1278.	4.8	35
20	Adaptive Parameter EXploration (APEX): Adaptation of robot autonomy from human participation. , 2014, , .		6
21	Maximizing visibility in collaborative trajectory planning. , 2014, , .		3
22	Special issue on robotics: science and systems. <i>Autonomous Robots</i> , 2014, 37, 333-334.	4.8	0
23	Asymmetric Rendezvous Search at Sea. , 2014, , .		12
24	Wide-Speed Autopilot System for a Swimming Hexapod Robot. , 2013, , .		13
25	Fair subdivision of multi-robot tasks. , 2013, , .		11
26	On the complexity of searching for an evader with a faster pursuer. , 2013, , .		4
27	Ninja legs: Amphibious one degree of freedom robotic legs. , 2013, , .		26
28	Socially-Driven Collective Path Planning for Robot Missions. , 2012, , .		4
29	Multi-domain monitoring of marine environments using a heterogeneous robot team. , 2012, , .		88
30	Feature Tracking Evaluation for Pose Estimation in Underwater Environments. , 2011, , .		23
31	Fourier Tag: A Smoothly Degradable Fiducial Marker System with Configurable Payload Capacity. , 2011, , .		16
32	State estimation of an underwater robot using visual and inertial information. , 2011, , .		30
33	A Simple Tactile Probe for Surface Identification by Mobile Robots. <i>IEEE Transactions on Robotics</i> , 2011, 27, 534-544.	10.3	93
34	Graphical State Space Programming: A visual programming paradigm for robot task specification. , 2011, , .		5
35	State estimation for snake robots. , 2011, , .		3
36	Graphical state-space programmability as a natural interface for robotic control. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
37	A vision-based boundary following framework for aerial vehicles. , 2010, , .		10
38	ONSUM: A system for generating online navigation summaries. , 2010, , .		12
39	Telepresence across the Ocean. , 2010, , .		4
40	Cooperative Exploration, Localization, and Visual Map Construction. Advances in Intelligent and Soft Computing, 2010, , 227-245.	0.2	0
41	Towards Navigation Summaries: Automated Production of a Synopsis of a Robot Trajectories. , 2009, , .		4
42	Robust servo-control for underwater robots using banks of visual filters. , 2009, , .		15
43	Enabling autonomous capabilities in underwater robotics. , 2008, , .		46
44	AQUA: An Amphibious Autonomous Robot. Computer, 2007, 40, 46-53.	1.1	180
45	Simultaneous planning, localization, and mapping in a camera sensor network. Robotics and Autonomous Systems, 2006, 54, 921-932.	5.1	57
46	On the Positional Uncertainty of Multi-Robot Cooperative Localization. , 2002, , 3-10.		2
47	Multi-robot collaboration for robust exploration. Annals of Mathematics and Artificial Intelligence, 2001, 31, 7-40.	1.3	123
48	Collaborative Robot Exploration and Rendezvous: Algorithms, Performance Bounds and Observations. Autonomous Robots, 2001, 11, 117-136.	4.8	105
49	Perception for Mobile Agents. Autonomous Robots, 2000, 8, 103-104.	4.8	0
50	A Mobile Robot That Learns Its Place. Neural Computation, 1997, 9, 683-699.	2.2	54
51	Shape Representation and Recognition from Multiscale Curvature. Computer Vision and Image Understanding, 1997, 68, 170-189.	4.7	89
52	Mapping in unknown graph-like worlds. Journal of Field Robotics, 1996, 13, 539-559.	0.7	19
53	A taxonomy for multi-agent robotics. Autonomous Robots, 1996, 3, 375.	4.8	275
54	Pose Estimation From Image Data Without Explicit Object Models. , 1995, , 19-35.		3

#	ARTICLE	IF	CITATIONS
55	Shape metrics from curvature-scale space and curvature-tuned smoothing. , 1991, , .		1