



Ali-akbar Agha-mohammadi

NASA
-JPL, Caltech
Robotics
Autonomous Systems
Artificial Intelligence

GET MY OWN PROFILE

	All	Since 2016
Citations	1201	984
h-index	20	18
i10-index	31	28

TITLE	CITED BY	YEAR
FIRM: Sampling-based Feedback Motion Planning Under Motion Uncertainty and Imperfect Measurements A Agha-mohammadi, S Chakravorty, N Amato International Journal of Robotics Research (IJRR) 33 (2), 268 - 304	201	2014
FIRM: Feedback controller-based Information-state Roadmap - A framework for motion planning under uncertainty - A Agha-mohammadi, S Chakravorty, NM Amato Intelligent Robots and Systems (IROS), 2011 IEEE/RSJ International ...	62	2011
Bayesian nonparametric reward learning from demonstration B Michini, TJ Walsh, AA Agha-Mohammadi, JP How IEEE Transactions on Robotics 31 (2), 369-386	53	2015
Decentralized control of partially observable Markov decision processes using belief space macro-actions S Omidshafiei, A Agha-mohammadi, C Amato, JP How 2015 IEEE International Conference on Robotics and Automation (ICRA), 5962-5969	48	2015
Feature-Based Laser Scan Matching For Accurate and High Speed Mobile Robot Localization AA Aghamohammadi, HD Taghirad, AH Tamjidi, E Mihankhah 3 rd European Conference on Mobile Robots, Freiburg, Germany	45	2007
SLAP: Simultaneous Localization and Planning Under Uncertainty via Dynamic Replanning in Belief Space A Agha-mohammadi, S Agarwal, SK Kim, S Chakravorty, NM Amato IEEE Transactions on Robotics 34 (5), 1195-1214	43 *	2018
Decentralized control of multi-robot partially observable Markov decision processes using belief space macro-actions S Omidshafiei, AA Agha-Mohammadi, C Amato, SY Liu, JP How, J Vian The International Journal of Robotics Research 36 (2), 231-258	43	2017
Health aware stochastic planning for persistent package delivery missions using quadrotors A Agha-mohammadi, NK Ure, JP How, J Vian Intelligent Robots and Systems (IROS 2014), 2014 IEEE/RSJ International ...	43	2014
Robust Online Belief Space Planning in Changing Environments: Application to Physical Mobile Robots A Agha-mohammadi, S Agarwal, A Mahadevan, S Chakravorty, ...	36	2014
Two-Stage Focused Inference for Resource-Constrained Minimal Collision Navigation B Mu, L Paull, AA Agha-Mohammadi, JJ Leonard, JP How IEEE Transactions on Robotics 33 (1), 124-140	25	2017
Information-based active SLAM via topological feature graphs B Mu, M Giamou, L Paull, A Agha-mohammadi, J Leonard, J How 2016 IEEE 55th Conference on Decision and Control (CDC), 5583-5590	25	2016
SLAM using single laser range finder AA Aghamohammadi, AH Tamjidi, HD Taghirad Proc. 17th World Cong. Int. Federation of Automatic Control (IFAC)	24	2008

TITLE	CITED BY	YEAR
Mar-cps: Measurable augmented reality for prototyping cyber-physical systems S Omidshafiei, AA Agha-Mohammadi, YF Chen, NK Üre, JP How, JL Vian, ... AIAA Infotech@ Aerospace, 0643	23	2015
Where to look? Predictive perception with applications to planetary exploration K Otsu, AA Agha-Mohammadi, M Paton IEEE Robotics and Automation Letters 3 (2), 635-642	22	2017
Real-time stochastic kinodynamic motion planning via multiobjective search on GPUs B Ichter, E Schmerling, A Agha-mohammadi, M Pavone Robotics and Automation (ICRA), 2017 IEEE International Conference on, 5019-5026	22	2017
Graph-based Cross Entropy method for solving multi-robot decentralized POMDPs S Omidshafiei, A Agha-mohammadi, C Amato, SY Liu, JP How, J Vian 2016 IEEE International Conference on Robotics and Automation (ICRA), 5395-5402	22	2016
On the probabilistic completeness of the sampling-based feedback motion planners in belief space A Agha-mohammadi, S Chakravorty, NM Amato Robotics and Automation (ICRA), 2012 IEEE International Conference on, 3983-3990	22	2012
Measurable Augmented Reality for Prototyping Cyberphysical Systems: A Robotics Platform to Aid the Hardware Prototyping and Performance Testing of Algorithms S Omidshafiei, AA Agha-Mohammadi, YF Chen, NK Ure, SY Liu, ... IEEE Control Systems 36 (6), 65-87	21	2016
Confidence-rich grid mapping AA Agha-Mohammadi, E Heiden, K Hausman, G Sukhatme The International Journal of Robotics Research 38 (12-13), 1352-1374	20	2019
Autonomous visual navigation CM Wierzynski, BF Behabadi, SP Gibson, A Aghamohammadi, S Agarwal US Patent App. 15/249,250	20	2017