Bahram Behzadian

Department of Computer Science University of New Hampshire bahram@cs.unh.edu, +1-603-767-9507 www.cs.unh.edu/~bb1071

Research Interests	Reinforcement learning, robotics.
Education	UNIVERSITY OF NEW HAMPSHIRE Ph.D. candidate in Computer Science, 2019-Present Advisor: Marek Petrik
	UNIVERSITY OF NEW HAMPSHIRE MSc. in Computer Science, 2015-2019 Master's thesis: Feature Selection by Singular Value Decomposition for Reinforcement Learning Thesis advisor: Marek Petrik
	TAMPERE UNIVERSITY OF TECHNOLOGY, FINLANDMSc. in Machine Automation, 2010-2013Master's thesis: Robot Localization with Weak MapsThesis advisor: Wolfram Burgard
	AZAD UNIVERSITY OF MASHHAD, IRANBSc. in Mechanical Engineering, 2002-2007Final project: HVAC design for 16,000 sq. ft cold storage warehouse
Research Experience	REINFORCEMENT LEARNING AND ROBUSTNESS LAB Research Assistant 2015–Present University of New Hampshire, Durham, NH, USA Projects: Optimizing the ambiguity sets for robust Markov decision processes, efficient algorithms for S- rectangular robust MDPs, and feature construction from high-dimensional raw-input observation for linear value function approximation for reinforcement learning.
	AUTONOMOUS INTELLIGENT SYSTEMS LAB 2012–2014 Research Assistant 2012–2014 University of Freiburg, Freiburg, Germany Project: Mobile robot localization and navigation on hand-drawn maps.
Conference Publications	Behzadian, B., Petrik, M., Ho, C. P. "Fast Algorithms for L_{∞} constrained S-rectangular Robust MDPs" In Neural Information Processing Systems (NeurIPS), 2021.
	Behzadian, B., Russel, R. H., Petrik, M., Ho, C. P. "Optimizing Percentile Criterion using Robust MDPs" In International Conference on Artificial Intelligence and Statistics (AISTATS), 2021.
	Behzadian, B., Gharatappeh, S., Petrik, M. "Fast Feature Selection for Linear Value Function Approxima- tion" In International Conference on Automated Planning and Scheduling, (ICAPS), 2019.
	Behzadian, B., Agarwal, P., Burgard, W., Tipaldi, G. D. "Monte Carlo localization in hand-drawn maps" In International Conference on Intelligent Robots and Systems (IROS), 2015.
	Boniardi, F., Behzadian, B., Burgard, W., Tipaldi, G. D. "Robot navigation in hand-drawn sketched maps." In <i>European Conference on Mobile Robotics, (ECMR)</i> , 2015.

Symposiums & Workshops	 Russel, R. H., Behzadian, B., Petrik, M. "Optimizing Norm-bounded Weighted Ambiguity Sets for Robu MDPs" In Neural Information Processing Systems (NeurIPS) Safety and Robustness in Decision-makin Workshop, 2019. Behzadian, B., Petrik, M., "Feature Selection by Singular Value Decomposition for Reinforcement Learning 		
	In International Conference on Machine Learning (ICML) Prediction and Generative Modeling Workshop,		
	2018. Behzadian, B., Petrik, M. "Low-rank Feature Selection for Reinforcement Learning posium on Artificial Intelligence and Mathematics, (ISAIM), 2018.	", In International Sym-	
Additional Employment	ENVIO, INC. AI Engineer Intern Dover, NH, USA Worked on solving a vehicle routing problem designed for intermodal trucking	Summer 2018	
	PERGAS POLYMER CO. PLC Programmer / Automation Engineer	2008-2009	
	Tehran, Iran Provided technical support in the troubleshooting of electrical and PLC control systems and machinery		
	TADBIR SANAT CONSULTING ENGINEERS HVAC System Designer Tehran, Iran Performed calculations in mechanical systems design, selection, sizing of equipment HVAC, hydronic, steam, and plumbing systems	2007–2008 ent, and interconnected	
Teaching	University of New Hampshire		
Experience	Teaching Assistant Reinforcement Learning Assembly Language Programming and Machine Organization Intro to Computer Science I Intro to Computer Science II From Problems to Algorithms to Programs From Programs to Computer Science	Fall 2021 Fall 2021 Fall 2016, Spring 2018 Spring 2018 Fall 2017 Spring and Fall 2017	
Scholarships /Awards	CEPS Graduate Fellowship 2015 College of Engineering and Physical Sciences, University of New Hampshire A prestigious award that is based on the strength of academic record and the potential for success in graduate school.		
	Thesis and Dissertation Fellowship Office of International Affairs, Tampere University of Technology	2012	
Technical Skills	Programming Languages: Python; C/C++; R; Matlab. Tools: Git; LATEX; Linux; TLA+ .		