

Bahram Behzadian

1 Pulaski Dr, No. 212
Newmarket, NH 03857 USA
bahram at cs.unh.edu, +1-603-767-9507
www.linkedin.com/in/buiksat

Research Interest	Machine learning, in particular, reinforcement learning, robust Markov decision processes, robotics.	
Education	UNIVERSITY OF NEW HAMPSHIRE	Ph.D. candidate in Computer Science , 2015–Present
	Advisor: Marek Petrik.	
	UNIVERSITY OF NEW HAMPSHIRE	MSc. in Computer Science , 2019
	Master's thesis: <i>Feature Selection by Singular Value Decomposition for Reinforcement Learning</i> . Advisor: Marek Petrik.	
Awards	TAMPERE UNIVERSITY OF TECHNOLOGY, FINLAND	MSc. in Machine Automation , 2013
	Master's thesis: <i>Robot Localization with Weak Maps</i> . Advisor: Wolfram Burgard.	
	AZAD UNIVERSITY, MASHHAD, IRAN	BSc. in Mechanical Engineering , 2007
	Final project: <i>HVAC design for 16,000 sq. ft cold storage warehouse</i>	
Conference Publications	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. Total financial package valued at \$60,008.	
	Thesis and Dissertation Fellowship	2012
	Office of International Affairs, Tampere University of Technology Total financial package valued at \$2,300.	
Symposium and Workshop Publications	Bahram Behzadian, Soheil Gharatappeh, Marek Petrik. “Fast Feature Selection for Linear Value Function Approximation” accepted in <i>International Conference on Automated Planning and Scheduling, (ICAPS)</i> , Berkeley (CA), USA, 2019.	
	Bahram Behzadian, Pratik Agarwal, Wolfram Burgard, and Gian Diego Tipaldi. “Monte Carlo localization in hand-drawn maps” In <i>Intelligent Robots and Systems (IROS), 2015 IEEE/RSJ International Conference on</i> , pp. 4291-4296. <i>IEEE</i> , 2015.	
	Federico Boniardi, Bahram Behzadian, Wolfram Burgard, and Gian Diego Tipaldi. “Robot navigation in hand-drawn sketched maps.” In <i>Mobile Robots (ECMR), 2015 European Conference on</i> , pp. 1-6. <i>IEEE</i> , 2015.	
Symposium and Workshop Publications	Bahram Behzadian, Marek Petrik. “Feature Selection by Singular Value Decomposition for Reinforcement Learning” In <i>International Conference on Machine Learning (ICML) Prediction and Generative Modeling Workshop</i> , Stockholm, Sweden, 2018.	
	Bahram Behzadian, Marek Petrik. “Low-rank Feature Selection for Reinforcement Learning” In <i>International Symposium on Artificial Intelligence and Mathematics, (ISAIM)</i> , Fort Lauderdale, (FL), USA, 2018.	

Professional Experience	UNIVERSITY OF NEW HAMPSHIRE <i>Research and Teaching Assistant</i> August 2015–Present I've been involved in projects such as feature construction from high-dimensional raw-input observation for linear value function approximation in context of reinforcement learning, coordinated multi-robot exploration, path planning for autonomous surface vehicles, object detection on the sea surface based on image classification using deep learning, and TREC CAR: information retrieval with a focus on knowledge graphs. I served as a teaching assistant in: CS 414 - <i>From Problems to Algorithms to Programs</i> (Fall 2017), CS 415 - <i>Intro to Computer Science I</i> (Fall 2016, Spring 2018), CS 416 - <i>Intro to Computer Science II</i> (Spring 2018), CS 417 - <i>From Programs to Computer Science</i> (Spring and Fall 2017).
	ENVIO, INC. <i>Summer Intern</i> May 2018–August 2018 Dover, NH, USA I worked on the design and implementation of a vehicle routing project for an intermodal freight transport platform that harnesses AI for optimization
	UNIVERSITY OF FREIBURG <i>Research Assistant</i> March 2012–October 2014 Autonomous Intelligent Systems Lab, Freiburg, Germany I worked on the localization and navigation problem of a mobile robot, in which the map of the environment was not present beforehand, and the robot relied on a hand-drawn map from a non-expert user.
	PERGAS POLYMER CO, TEHRAN, IRAN <i>Industrial Maintenance Technician</i> December 2008–December 2009 PLC maintenance & troubleshooting (including Ladder logic) I operated as an industrial maintenance technician for PLC troubleshooting (including Ladder logic).
	TADBIR SANAT CONSULTING ENGINEERS, TEHRAN, IRAN <i>HVAC System Designer</i> September 2007–November 2008 Mechanical Engineer for heating, ventilating, air conditioning and piping I performed calculations in the development of Mechanical Systems Design, Selection and sizing of equipment and interconnected HVAC, Hydronic, Steam and Plumbing Systems.
Technical Skills	Programming Languages: Python; C/C++; Matlab/Octave. Working knowledge: R; Java. Tools: Git; SVN; \LaTeX ; Linux; Windows; TLA+ .
Language Skills	English: Fluent, Persian: Native speaker, German: Elementary proficiency Academic IELTS Overall Band 7.0 GRE Revised General Test QR: 164, VR: 151, AW: 3