

Curriculum Vitae

Zeynab Talebpour

Education

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| 2013-2018 | Ph.D. in Robotics, Control and Intelligent Systems
<i>Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland</i> |
| 2009-2012 | M.Sc in Machine Intelligence and Robotics
<i>University of Tehran, Iran</i> |
| 2005-2009 | B.Sc in Computer Software Engineering
<i>University of Tehran, Iran</i> |

Experience

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| 2012 | Research Intern
<i>DISAL Laboratory, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland</i> |
| 2009-2011 | Part-time Web Developer
<i>Tebyan Corporation, Tehran, Iran</i> |
| 2009 | Engineering Intern
<i>Tebyan Corporation, Tehran, Iran</i> |

Honors and Awards

2018	ABB Award for IROS 2018 best student paper finalist
2012	University of Tehran machine intelligence and robotics award for the best M.Sc. graduation grade
2009	University of Tehran M.Sc. studies scholarship
2009	University of Tehran computer engineering award for B.Sc. graduation grade, ranked 3rd
2004	PETRONAS B.Sc. studies scholarship, international talent program

Publications

Journal Articles

1. **Z. Talebpour** and A. Martinoli. "Adaptive Risk-Based Replanning for Social Robots with Limited Local Perception." IEEE Robotics and Automation Letters (RA-L 2019), submitted.

Refereed Conference Proceedings

1. **Z. Talebpour** and A. Martinoli. "Risk-Based Human-Aware Multi-Robot Coordination in Dynamic Environments Shared with Humans." IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2018), Madrid, Spain, 2018.
2. **Z. Talebpour** and A. Martinoli. "Multi-Robot Coordination in Dynamic Environments Shared with Humans." IEEE International Conference on Robotics and Automation (ICRA 2018), Brisbane, Queensland, Australia, 2018.
3. **Z. Talebpour**, S. Savarè and A. Martinoli. "Market-based Coordination in Dynamic Environments Based on the Hoplitest Framework." The 2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2017), Vancouver, British Columbia, Canada, 2017.
4. A. Canepa, **Z. Talebpour** and A. Martinoli. "Automatic Calibration of Ultra Wide Band Tracking Systems Using A Mobile Robot: A Person Localization Case-study." The International Conference on Indoor Positioning and Indoor Navigation (IPIN 2017), Sapporo, Japan, 2017.
5. J. M. Palacios-Gasos, **Z. Talebpour**, E. Montijano, C. Sagues and A. Martinoli. "Optimal Path Planning and Coverage Control for Multi-Robot Persistent Coverage in Environments with Obstacles." International Conference on Robotics and Automation (ICRA 2017), Singapore, 2017.
6. **Z. Talebpour**, D. Viswanathan, R. Ventura, G. Englebienne and A. Martinoli. "Incorporating Perception Uncertainty in Human-Aware Navigation: A Comparative Study." International Symposium on Robot and Human Interactive Communication (RO-MAN 2016), New York, USA, 2016.

7. **Z. Talebpour**, I. Navarro Oiza and A. Martinoli. "On-Board Human-Aware Navigation for Indoor Resource-Constrained Robots: A Case-Study with the Ranger." IEEE/SICE International Symposium on System Integration (SII 2015), Nagoya, Japan, 2015.
8. E. Di Mario, **Z. Talebpour** and A. Martinoli. "A Comparison of PSO and Reinforcement Learning for Multi-Robot Obstacle Avoidance." IEEE Congress on Evolutionary Computation (CEC 2013), Cancun, México, 2013.
9. F. Farshidian, **Z. Talebpour** and M. Nili Ahmadabadi. "Budgeted Knowledge Transfer for State-wise Heterogeneous RL Agents." Neural Information Processing (ICONIP 2012), Springer Berlin Heidelberg, 2012.

Project Supervision

1. Paul Prevel, Internship project (Summer 2018)
Human Involvement in Risk-Based Cooperative Human-aware Navigation Through HRI
2. Cyrill Baumann, Master Thesis (Spring 2018), Co-supervised with EiraTech, Ireland
Distributed vs Centralized Path-planning and Task Assignment Solutions for A Fleet of Mobile Warehouse Robots
3. Paul Prevel, Semester project (Spring 2018)
Integrating Human-Robot Interaction (HRI) with Cooperative Human-aware Navigation for Social Environment
4. Niclos Talabot, Semester project (Fall 2017)
Human-aware Navigation Using Kinect-based Active Perception
5. Paul Alderton, Semester project (Fall 2017)
Market-based Coordination for Social Robots in Highly Dynamic Environments Based on CBBA
6. Florian Maushart, Master Thesis (Spring 2017), Co-supervised with Grasp Laboratory, University of Pennsylvania, USA
Intrusion Detection for Stochastic Task Allocation in Robot Swarms
7. Wilson Colin, Semester project (Fall 2016)
Human-aware Navigation in Populated Environment with Special Focus on Group Interactions
8. Alaa Bakr Maghrabi, Semester project (Fall 2016)
Ultra-Wide band Localization in for Person Tracking
9. Stefano Savarè, Semester project (Spring 2016)
Market-based Coordination for Social Robots in Human-populated Environments
10. José Manuel Palacios Gaños, Internship project (Spring 2016)
Optimal Path Planning and Coverage Control for Multi-Robot Persistent Coverage in Environments with Obstacles
11. Audrey Marullaz, Semester project (Fall 2016)
Human Motion Prediction for Better Trajectory Planning Using MONarCH Robots

12. Christophe Reiners, Semester project (Fall 2016)
Ultra-Wideband Localization in Multi-Robot Systems for Person Tracking
13. Alessio Canepa, Master Thesis (Spring 2015), Co-supervised with Politecnico di Torino, Italy
Ultra-Wideband Localization in Multi-Robot Systems

Academic Service (Reviews)

1. IEEE Robotics and Automation Letters (RA-L) 2018
2. IEEE Robotics and Automation Magazine (RAM) 2018
3. IEEE International Conference on Robot and Human (RO-MAN) 2018
4. IEEE International Conference on Intelligent Robots and Systems (IROS) 2018
5. IEEE International Conference on Robotics and Automation (ICRA) 2018
6. IEEE International Conference on Intelligent Robots and Systems (IROS) 2017
7. IEEE Intelligent Systems Journal 2017
8. IEEE International Symposium on Multi-Robot and Multi-Agent Systems (MRS) 2017
9. Autonomous Robots Journal 2017
10. Robotics and Autonomous Systems Journal 2016
11. IEEE Intelligent Systems Journal 2016

Languages

Persian	native
English	excellent
French	intermediate