

# Senka Krivić



I joined Intelligent and Interactives Systems (IIS) lab in February 2014 as a PhD student. There I am working on a [SQUIRREL](#) project and as a teaching assistant of the prosemiar [Introduction to Intelligent and Autonomous Systems](#). My work is under the supervision of Professor Justus Piater and also advised by [Emre Ugur](#) and [Sandor Szedmak](#)

Previously, I obtained a Bachelor and Master degrees in Automatic Control and Electronics at the Faculty for Electrical Engineering, University of Sarajevo. During my studies, I focused on mobile robotics and intelligent control. My bachelor thesis was “Mobile Robot Map Building” and my master thesis was “Biometric Authentication Based on Artificial Neural Networks”, both under supervision of Professor Samim Konjicija.

## Research Interests

Robotics, Machine Learning, Robot Learning, Movement Primitives, Computational Intelligence, Optimization

## Contact Information

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## Teaching

### Universität Innsbruck

- [Introduction to Intelligent and Autonomus Systems \(UIBK link\)](#), spring 2015/2016,
- [Introduction to Intelligent and Autonomus Systems \(UIBK link\)](#), spring 2014/2015,
- [Introduction to Intelligent and Autonomus Systems \(UIBK link\)](#), spring 2013/2014,

### University of Sarajevo

- Intelligent Control, fall 2013/2014

## Publications

| Year | Conferences  | Paper   | Files                         |
|------|--|---|-------------------------------|
| 2016 | <a href="#">CASE 2016</a>  | <a href="#">A Robust Pushing Skill For Object Delivery Between Obstacles</a> , Senka Krivić, Emre Ugur, Justus Piater   |                               |
| 2015 | <a href="#">ESANN</a>  | <a href="#">Learning missing edges via kernels in partially-known graphs</a> , Senka Krivić, Sandor Szedmak, Hanchen Xiong, Justus Piater                                     | <a href="#">Dataset MMMVR</a> |
| 2013 | <a href="#">9th ASCC</a>   | <a href="#">Optimization based algorithm for correction of systematic odometry errors of mobile robot</a> , Krivic, S.; Mrzic, A. ; Velagic, J. ; Osmic, N.                   |                               |
| 2012 | <a href="#">13th MECATRONICS-REM</a>   | <a href="#">Haptic paddle and fuzzy based virtual environment model control system as a didactic tool</a> , Krivic, S., Kaknjo, A. ; Hujdur, M. ; Zubovic, N. ; Sokic, E.     |                               |
| 2012 | <a href="#">35th MIPRO</a>   | <a href="#">Design and implementation of fuzzy controller on embedded computer for water level control</a> , Krivic, S. ; Hujdur, M. ; Mrzic, A. ; Konjicija, S.              |                               |
| 2011 | <a href="#">34th MIPRO</a>   | <a href="#">Building mobile robot and creating applications for 2D map building and trajectory control</a> , Krivic, S.; Mrzic, A. ; Osmic, N.                                |                               |
| Year | Workshops  |   |                               |
| 2017 | <a href="#">Knowledge-based techniques for problem solving and reasoning (KnowProS 2017) at AAAI2017</a> | Initial State Prediction, Senka Krivic, Michael Cashmore, Bram Ridder, Justus Piater, <i>extended abstract</i>  |                               |
| 2016 | <a href="#">UK Planning and Scheduling Special Interest Group</a>  | Initial State Prediction in Planning, Senka Krivic, Michael Cashmore, Bram Ridder, Justus Piater, <i>extended abstract</i>  |                               |
| 2015 | <a href="#">IROS 2015 workshop on Learning object affordances</a>  | <a href="#">Acting on Push Affordances: Adapting Dynamic Movement Primitives Based on Object Behaviour</a> , Senka Krivic, Emre Ugur, Justus Piater, <i>extended abstract</i> | <a href="#">Poster</a>        |
| 2014 | <a href="#">ARW</a>  | <a href="#">Exploiting the Environment for Object Manipulation</a> , Simon Hangl, Senka Krivic, Philipp Zech, Emre Ugur, Justus Piater, <i>Best Student Paper Award</i>       |                               |

## More Information

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[LinkedIn](#)

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