

# Senka Krivić



I joined the Intelligent and Interactive Systems (IIS) lab in February 2014 as a PhD student. There I am working on the [SQUIRREL](#) project and as a teaching assistant of the proseminar [Introduction to Intelligent and Autonomous Systems](#). My work is under the supervision of Professor Justus Piater.

Previously, I received Bachelor and Master degrees in Automatic Control and Electronics at the Faculty of Electrical Engineering, University of Sarajevo. During my studies, I focused on mobile robotics and intelligent control. My bachelor thesis was on “Mobile Robot Map Building” and my master thesis was on “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

Intelligent and Interactive Systems Institute of Informatik, Room 2WO2 Technikerstr. 21a A-6020 Innsbruck Austria
<a href="mailto:senka.krivic@uibk.ac.at">senka.krivic@uibk.ac.at</a>
Phone (IIS Secretariat) : +43 512 507 53268
Fax (IIS Secretariat): +43 512 53069

## Teaching

### Universität Innsbruck

- [Introduction to Intelligent and Autonomus Systems \(UIBK link\)](#), spring 2017/2018,
- [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,

## Thesis supervision

Thesis	Student	Status
<a href="#">Navigation with Simultaneous Localization and Mapping for Indoor Omni-Directional Mobile Robot</a>	Matej Stanic	active
<a href="#">Floating-Base Inverse Kinematics for Mobile Manipulation</a>	Konstantin Beiser	completed

Thesis	Student	Status
<a href="#">Human-Robot Interaction via Voice-Controllable User Interface</a>	Philipp Häusle	active

## University of Sarajevo

- Intelligent Control, fall 2013/2014

## Publications

Year	Conferences	Paper	Files
2017	<a href="#">International Joint Conference on Artificial Intelligence (IJCAI)</a>	<a href="#">Decreasing Uncertainty in Planning with State Prediction</a> , Senka Krivic, Michael Cashmore, Daniele Magazzeni, Bram Ridder, Justus Piater	<a href="#">code</a>
2017	<a href="#">18th Towards Autonomous Robotic Systems (TAROS) Conference</a>	<a href="#">Autonomous Object Handover using Wrist Tactile Information</a> , Jelizaveta Konstantinova, Senka Krivic, Agostino Stilli, Justus Piater, Kaspar Althoefer	
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 MECHATRONICS-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.	
<b>Year</b>	<b>Workshops</b>		
2017	<a href="#">Knowledge-based techniques for problem solving and reasoning (KnowProS 2017) at AAAI2017</a>	<a href="#">Initial State Prediction</a> , Senka Krivic, Michael Cashmore, Bram Ridder, Justus Piater, <i>paper</i>	
2016	<a href="#">UK Planning and Scheduling Special Interest Group</a>	<a href="#">Initial State Prediction in Planning</a> , 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

[Google Scholar](#)[LinkedIn](#)[GitHub](#)

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