Gašper **Slapničar**

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Education

Faculty of Computer and Information Science — *Večna pot 113, 1000 Ljubljana*
BS in Computer Science — *Oct 2011 – Sep 2015*
GPA: 8.4

Faculty of Computer and Information Science — *Večna pot 113, 1000 Ljubljana*
MS in Computer Science — *Oct 2015 – Feb 2018*
GPA: 8.6

Work Experience

SiMobil d.d. — *Šmartinska cesta 134b, 1000 Ljubljana*
Student IT CRM Support — *Mar 2014 – Jul 2014*
- Administration of internal applications
- Analysis and upgrades of internal SQL databases
- CRM support via IT

Jožef Stefan Institute — *Jamova 39, 1000 Ljubljana*
Data Science Researcher — *July 2014 – Present*
- Data analysis
- Development and usage of machine learning algorithms
- Signal processing

Skills

Programming Languages: Python, MATLAB, basics of: Java, SQL, HTML, CSS, JavaScript, bash
Machine Learning: Familiar with data analysis, ML algorithms for classification and regression, deep learning
Signal Processing: Familiar with filtering, domain transforms, peak detection, etc.
Foreign Languages: English, very basic German
Teamwork: Familiar with team development, across several collaborators from several countries

Projects

EcoDots (H2020) — *Python, Flask, Prediction.IO, Scala*
Development of a platform for sustainable tourism in Europe. Worked on a recommender system. — *https://ecobnb.com/*

HeartMan (H2020) — *MATLAB, Python, TensorFlow, Keras*
Designing a personal health system to help the patients with Congestive Heart Failure to manage their condition. Worked on blood pressure estimation from PPG. — *http://www.heartman-project.eu/*

Insension (H2020) — *MATLAB, Python, Docker*
Designing and developing an ICT platform that enables persons with profound and multiple learning disabilities (PIMD) and improve their quality of life. Working on physiological signal detection from contact-free sensors (cameras). — *http://www.insension.eu/*

Awards

July 2011	**"Zlati maturant"**, Achieved exceptional top-of-class success at the national matura exam.	*RIC, Republic of Slovenia*
October 2018	**1st and 2nd Place SHL Challenge 2018**, Achieved 1st and 2nd place at an activity recognition challenge using phone sensors.	*Huawei and University of Sussex*

Publications

2014	**Cloud-based recommendation system for e-commerce**, Intelligent systems: proceedings of the 17th International Multiconference Information Society - IS 2014	*Slapničar et al.*
2015	**How to recognize animal species based on sound - a case study on bumblebees, birds and frogs**, Intelligent systems: proceedings of the 18th International Multiconference Information Society - IS 2015	*Gradišek et al.*
2015	**Recommending accommodations using machine learning provider in a cloud**, bachelor's thesis	*Slapničar*
2015	**Recommender system as a service based on the Alternating Least Squares algorithm**, Intelligent systems: proceedings of the 18th International Multiconference Information Society - IS 2015	*Slapničar et al.*
2016	**Spletna aplikacija za prepoznavanje čmrljev na podlagi zvoka**, Proteus: ilustriran časopis za poljudno prirodoznanstvo	*Gradišek et al.*
2017	**Continuous blood pressure estimation from PPG signal**, Slovenian Conference on Artificial Intelligence: proceedings of the 20th International Multiconference Information Society - IS 2017	*Slapničar et al.*
2017	**Predicting species identity of bumblebees through analysis of flight buzzing sounds**, Bioacoustics: the international journal of animal sound and its recording	*Gradišek et al.*
2018	**A new frontier for activity recognition: the Sussex-Huawei locomotion challenge**, UbiComp/ISWC'18 adjunct	*Janko et al.*
2018	**Applying multiple knowledge to Sussex-Huawei locomotion challenge**, UbiComp/ISWC'18 adjunct	*Gjoreski et al.*
2018	**Blood pressure estimation with a wristband optical sensor**, UbiComp/ISWC'18 adjunct	*Slapničar et al.*
2018	**Continuous blood pressure estimation from PPG signal**, Informatica: an international journal of computing and informatics	*Slapničar et al.*
2018	**Continuous blood pressure estimation from PPG signal**, master's thesis	*Slapničar et al.*
2018	**Reconstructing PPG signal from video recordings**, Slovenian Conference on Artificial Intelligence: proceedings of the 21st International Multiconference Information Society - IS 2018	*Slapničar et al.*
2019	**Blood Pressure Estimation from Photoplethysmogram Using a Spectro-Temporal Deep Neural Network**, Sensors journal, 2019	*Slapničar et al.*
2019	**Contact-free Monitoring of Physiological Parameters in People with Profound Intellectual and Multiple Disabilities**, Computer Vision for Physiological Measurement, CVPM 2019	*Slapničar et al.*
Pending	**Classical and Deep Learning Methods for Recognizing Human Activities and Modes of Transportation with Smartphone Sensors**, Information Fusion journal, 2019	*Slapničar et al.*