Curriculum Vitae

Personal Data

Name:	Nemanja Rakićević
Date of birth:	12/05/1988
Place of birth:	Novi Sad, Serbia
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Research interests

- Uncertainty-based efficient exploration methods
- Deep learning, probabilistic graphical models, temporal models
- Self-supervised robot task learning and transfer

Employment and Academic activities

06 – 08/2017	**Data Scientist at Human (previously CitySail)** Developing and implementing models for real-time human personality estimation
01/2015 – 05/2016	**Research Assistant at iBug group, Imperial College London, UK** Sequential probabilistic models for emotion recognition based on facial expressions. Multimodal Neural Conditional Random Fields for Behaviour Analysis
2015 –	**Graduate Teaching Assistant, Imperial College London, UK** Machine Learning (prof Maja Pantic), Computing 2, Robotics (Petar Kormushev)
12/2013 – 07/2014	**Research Engineer at RIS group, LAAS-CNRS, Toulouse, France.** Working on rover locomotion diagnostics, using sensor feeds
07/2013	Testing sessions at the Japanese Aerospace Exploration Agency's (JAXA) Institute of Space and Astronautical Science on the "Cuatro" rover test bed
2011	Team leader at the national robotics competition (6th place)
09 – 10/2010	**Internship at "Mihajlo Pupin" Institute, Belgrade, Serbia** Robotic gripper and small rover movement programming [Supervisor: Professor Aleksandar Rodić]

Education

2016 – now	**PhD Student** Robot Intelligence Lab, Imperial College London
2011 – 2013	**European Master On Advanced Robotics (EMARO), double degree program.** Thesis development: Keio University, Japan 2nd year: Ecole Centrale de Nantes, grade average A 1st year: University of Genova, grade average A
2007 – 2011	**Mechatronics, Robotics and Automatization, Faculty of Technical Sciences, University of Novi Sad.** 240 ECTS, grade average 10 [100/100]
2003 – 2007	**"Jovan Jovanović Zmaj" Grammar school, Novi Sad.** Mathematical-Scientific programme

Publications

N. Rakicevic, P. Kormushev. "*Efficient Robot Task Learning and Transfer via Informed Search in Movement Parameter Space*", AIRW (NIPS), 2017

N. Rakicevic, O. Rudovic, S. Petridis, M. Pantic. "*Multi-Modal Neural Conditional Ordinal Random Fields for Dynamic Agreement Level Classification*", ICPR, 2016

N. Rakicevic, O. Rudovic, S. Petridis, M. Pantic. "*Neural Conditional Ordinal Random Fields for Agreement Level Estimation*", WASA, 2015.

Courses and projects

MSc:	
M1	Control of Multivariable Systems, Real-Time Systems, Neural Networks, Computer Vision, Mechanical Design Methods, Optimization Techniques, Embedded Systems, Artificial Intelligence (Machine Learning), Mobile Robotics; **Group project** - building an underwater robot to compete at the NURC SAUC-E 2012 (mechanical, control and electronics design) [Supervisor: Professor Giuseppe Casalino]
M2	Vision Based Control, Advanced Modeling of Robots, Identification and Control of Robots, Humanoid and Walking Robots, Capture and Simulation of Human Motion;
Keio	Aerospace Propulsion, Mixed Reality, Space Systems Engineering; **Thesis Topic** - "Guidance, Navigation and Control for Planetary Rover" [Supervisors: Professors Masaki Takahashi, Philippe Martinet and Giuseppe Casalino]
BSc:	Electronics (analog, digital, impulse), Industrial Robotics, PLC Programming, Mechanics, Automated Control Systems, Microprocessor Electronics, Optimization Methods, Machine Mechanics (mechanisms), Components of Technological Systems (pneumatics and hydraulics); **Group project** - building a mobile robot to compete at the EUROBOT 2011 competition (group leader; electronics design, movement programming) **Thesis topic** - "Realization of the Robot Sensor System and Motion Control for the EUROBOT 2011 Competition, within the Team MAXIMILIAN" [Supervisor: Professor Branislav Borovac]

Awards and recognitions

2016 – 2020	Imperial College London President's PhD Scholarship
2011 – 2013	Erasmus Mundus scholarship laureate for the EMARO MSc programme
2010/2011	Declared best student in 2010/11 generation, University of Novi Sad
2010 – 2013	"Dositeja" scholarship laureate, Ministry of Youth and Sport, Republic of Serbia
2009/2010	University of Novi Sad scholarship laureate
2008 – 2012	Annual award for exceptional students for achievements during their studies

Language skills

Serbian	Native speaker
English	Cambridge University, Certificate of Proficiency in English, grade B (2006)
Italian	Advanced
French	Intermediate

Other

Computer skills	(active) Python, (passive) MATLAB, LaTeX, C, C++, Solid Edge, Pro/ENGINEER
Hobbies	Capoeira Club "Capoeira Associação Sérvia" (since 2005), Surfing, Drawing