Curriculum Vitae

Personal Data

Name:	Nemanja Rakićević
Address:	Imperial College London SW7 2AZ, London, UK
Date of birth:	12/05/1988
Place of birth:	Novi Sad, Serbia
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Education

2016 – now — **PhD student at Robot Intelligence Lab, Imperial College London, UK**
Reinforcement learning methods for robotics

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

Academic activities

04/2015 – 04/2016 — **Research Assistant at iBug group, Imperial College London, UK**
Sequential probabilistic models for emotion recognition based on facial expressions

2015 — **Teaching Assistant**, Machine Learning course C395 (prof Maja Pantic)
2016 — **Teaching Assistant**, Computing 2 course DE2-COM2 (prof 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)

09/2010 – 10/2010 — **Internship at "Mihajlo Pupin" Institute, Belgrade, Serbia**
Robotic gripper and small rover movement programming
[Supervisor: Professor Aleksandar Rodić]

Publications

N. Rakicevic, O. Rudovic, S. Petridis, M. Pantic. “Multi-Modal Neural Conditional Ordinal Random Fields for Agreement Level Estimation” International Conference on Pattern Recognition (ICPR'16) (oral). Cancun, Mexico, December 2016.

N. Rakicevic, O. Rudovic, S. Petridis, M. Pantic. “*Neural Conditional Ordinal Random Fields for Agreement Level Estimation*” 1st International Workshop on Automatic Sentiment Analysis in the Wild (WASA'15). Xi'an, China, September 2015.

N. Rakicevic, M. Takahashi, “*Guidance, Navigation and Control for Planetary Rover*”, (Internal report) 2013.

Research interests

- Reinforcement learning, deep learning, probabilistic graphical models, temporal models
- Mobile robot navigation, intelligent robotics

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 President's PhD Scholarship
2011 – 2013	Erasmus Mundus scholarship laureate for the EMARO MSc programme
2010/2011	Declared best student in generation of the 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 achieved success in their previous studies

Language skills

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

Other

Computer skills	MATLAB, Python, LaTeX, C, C++, Solid Edge, Pro/ENGINEER, PCB design software
Memberships	Humanitarian Fund "Privrednik" (since 2005) An IEEE student member (since 2009)
Hobbies	Capoeira Club "Capoeira Associação Sérvia" (since 2005), Surfing, Drawing