Nemanja Rakićević

+44 77 839 669 20

n.rakicevic@imperial.ac.uk imperial.ac.uk/people/n.rakicevic

Research interests

- Representation learning, Deep reinforcement learning, Quality-Diversity, Robotics
- Uncertainty-based efficient policy search methods

Education

2016 - now	PhD researcher Robot Intelligence Lab, Imperial College London
2011 - 2013	MSc European Master On Advanced Robotics (EMARO), double degree Thesis development: Keio University, Japan 2 nd year: Ecole Centrale de Nantes, grade average A 1 st year: University of Genova, grade average A
2007 - 2011	BSc Mechatronics, Robotics and Automatization. Faculty of Technical Sciences, University of Novi Sad. 240 ECTS, grade average 10 [100/100]

Employment and academic activities

Employment and academic activities		
09/2018 - 01/2019	Research Intern: DeepMind, London, UK Efficient exploration for Sim2Real transfer [Host: Francesco Nori]	
(06 - 08)/2017	Data Scientist: WeAreHuman.io (previously CitySail), London, UK Developing and implementing models for real-time human personality estimation.	
01/2015 - 05/2016	Research Assistant: iBug group, Imperial College London, UK Sequential probabilistic models for emotion recognition based on facial expressions and audio data. Multimodal Neural Conditional Random Fields for Behaviour Analysis.	
2015 - now	Graduate Teaching Assistant: Imperial College London, UK Machine Learning (prof Maja Pantic), Computing II, Robotics (Dr Petar Kormushev) Data Structures and Algorithms (Dr Heikki Peura)	
12/2013 - 07/2014	Research Engineer: RIS group, LAAS-CNRS, Toulouse, France Rover locomotion diagnostics based on proprioceptive sensor feeds.	
07/2013	MSc thesis testing sessions: Japanese Aerospace Exploration Agency's (JAXA) Institute of Space and Astronautical Science on the "Cuatro" rover test bed	
2011	Team leader: National robotics competition (EUROBOT)	
(09 - 10)/2010	Intern: Mihajlo Pupin Institute, Belgrade, Serbia Robotic gripper and small rover movement programming.	

[Host: Professor Aleksandar Rodić]

Publications

N Rakicevic, A Cully, P Kormushev. "Policy Manifold Search for Improving Diversity-based Neuroevolution", Beyond Backpropagation Workshop (NeurIPS), 2020 [oral 8% acceptance rate]

RP Saputra, **N Rakicevic**, D Chappell, K Wang, P Kormushev. "Hierarchical Decomposed-Objective Model Predictive Control for Autonomous Casualty Extraction", [under review], 2020

RP Saputra, **N Rakicevic**, P Kormushev. "Sim-to-Real Learning for Casualty Detection from Ground Projected Point Cloud Data", IROS, 2019

N Rakicevic, P Kormushev. "Active Learning via Informed Search in Movement Parameter Space for Efficient Robot Task Learning and Transfer", AURO, 2019

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.

Services

Reviewer International Conference Learning Representations; 2021

Reviewer Journal of Intelligent & Robotic Systems; 2020

Reviewer International Conference Machine Learning; 2020 (top reviewer)

Reviewer NeurIPS 2019 Workshop on Robot Learning; 2019, 2020 Reviewer IEEE International Conference on Humanoid Robots; 2019

Reviewer IEEE International Conference on Robotics and Automation; 2018, 2020

Summer Schools

2020	DAAD Postdoc-Net-AI Fellow
2019	Machine Learning Summer School, London, UK
2017	Deep Reinforcement Learning Bootcamp, Berkeley, CA

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 generation 2010/11, 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 to exceptional students for their achievements during studies,
	Ministry of Education, Republic of Serbia

Skills

Computer skills	[passive] MATLAB, C/C++, Solid Edge, Pro/ENGINEER
Languages	Serbian, English, Italian, Spanish, French
Hobbies	Capoeira Club "Capoeira Associação Sérvia" (since 2005), Surfing, Drawing