Andreea Radulescu

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Education

2011–2016	**PhD Robotics**, *University of Edinburgh*, School of Informatics. Institute of Perception, Action and Behaviour
2010–2011	**MSc Artificial Intelligence**, *University of Edinburgh*, School of Informatics, MSc Thesis: *Exploiting Variable Physical Damping*. Graduated with Distinction
2004–2009	**Bachelor of Engineering**, *"POLITEHNICA" University of Bucharest*, Faculty of Automatic Control and Computers, *Diploma grade: 9.75 (97.5%)*. Main field of study: System and Computer Engineering Specialisation: Automatic Control and Applied Informatics

Experience

2016–present	**PostDoctoral Researcher**, Istituto Italiano di Tecnologia. Advanced Robotics Department - Dynamic Legged Systems
2012–2016	**Teaching Experience**, University of Edinburgh.

- ○ *2012 - 2013*
  - Teaching Assistant - Data Mining and Exploration
  - Tutor - Informatics Research Proposal

- ○ *2013 - 2014*
  - Lab Demonstrator - Robotics: Science and Systems
  - Tutor - System Design Process

- ○ *2014 - 2015*
  - Lab Demonstrator - Robotics: Science and Systems
  - Tutor - System Design Process

2009	**Intern (Process Engineering Department)**, Dacia, Group Renault. During this internship I have completed my Bachelor Dissertation ("Modifications and backup management procedure for the OSCAR system").

Miscellaneous

2013 - present	**Meeting coordinator**, University of Edinburgh. Organise regular research group meetings. Manage bookings and set up rota.
2013 - 2015	**EIE Conference Staff member**, iVentures. Part of the support staff team.
2012 - present	**Public engagement**, University of Edinburgh. Science communication volunteer at various public outreach events. Open doors day volunteer.

Invited Talks

25th May 2018	**Robust Locomotion Strategies on the HyQ Robot Series**, *Dynamic Legged Locomotion in Realistic Terrains Workshop*, The International Conference on Robotics and Automation (ICRA 2018), Brisbane, Australia.

Publications

2018 **Simultaneous Contact, Gait, and Motion Planning for Robust Multilegged Locomotion via Mixed-Integer Convex Optimization**, The International Conference on Robotics and Automation (ICRA 2018).
Authors: Bernardo ACEITUNO-CABEZAS, Carlos MASTALLI, Hongkai DAI, Michele FOCCHI, Andreea RADULESCU, Darwing G. CALDWELL, José CAPPELLETTO, Juan C. GRIECO, Gerardo FERNÁNDEZ-LÓPEZ, Claudio SEMINI

2017 **Learning Optimal Gait Parameters and Impedance Profiles for Legged Locomotion**, Humanoid Robots (Humanoids 2017).
Authors: Elco HEIJMINK, Andreea RADULESCU, Brahayam PONTON, Victor BARASUOL, Darwing G. CALDWELL, Claudio SEMINI

2017 **Whole-body Trajectory Optimization for Non-periodic Dynamic Motions on Quadrupedal Systems**, The International Conference on Robotics and Automation (ICRA 2017).
Authors: Andreea RADULESCU, Ioannis HAVOUTIS, Darwing G. CALDWELL, Claudio SEMINI

2017 **Trajectory and Foothold Optimization Using Low-Dimensional Models for Rough Terrain Locomotion**, The International Conference on Robotics and Automation (ICRA 2017).
Authors: Carlos MASTALLI, Michele FOCCHI, Ioannis HAVOUTIS, Andreea RADULESCU, Sylvain CALINON, Jonas BUCHLI, Darwing G. CALDWELL, Claudio SEMINI

2017 **Probabilistic Contact Estimation and Impact Detection for State Estimation of Quadruped Robots**, The International Conference on Robotics and Automation (ICRA 2017).
Authors: Marco CAMURRI, Maurice FALLON, Stephane BAZEILLE, Andreea RADULESCU, Victor BARASUOL, Darwing G. CALDWELL, Claudio SEMINI

2017 **Optimal Control of Variable Stiffness Policies: Dealing with Switching Dynamics and Model Mismatch**, *Springer Tracts in Advanced Robotics*, Geometric and Numerical Foundations of Movements.
Authors: Andreea RADULESCU, Jun NAKANISHI, David J. BRAUN, Sethu VIJAYAKUMAR

2016 **Optimization for non-periodic dynamic motions of legged systems**, The 9th International Workshop on Human-Friendly Robotics (HFR 2016).
Authors: Andreea RADULESCU, Ioannis HAVOUTIS, Darwing G. CALDWELL, Claudio SEMINI

2015 **Optimal Control of Multi-Phase Movements with Learned Dynamics**, IEEE International Conference on Man-Machine Interactions (ICMMI).
Authors: Andreea RADULESCU, Jun NAKANISHI, Sethu VIJAYAKUMAR

2014 **Spatio-Temporal Stiffness Optimisation in Movements with Switching Dynamics**, IEEE Transactions on Robotics (T-RO) Journal *(currently under review)*.
Authors: Jun NAKANISHI, Andreea RADULESCU, David BRAUN, Sethu VIJAYAKUMAR

2013 **Spatio-temporal Optimisation for Multi-phase Movements: Dealing with Contacts and Switching Dynamics**, IEEE/RSJ International Conference of Intelligent Robots and Systems, Tokyo, Japan.
Authors: Jun NAKANISHI, Andreea RADULESCU, Sethu VIJAYAKUMAR

2012 **Exploiting Variable Physical Damping in Rapid Movement Tasks**, IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Kaohsiung, Taiwan **[AIM 2012 Best Student Paper Award Finalist]**.
Authors: Andreea RADULESCU, Matthew HOWARD, David BRAUN, Sethu VIJAYAKUMAR

Awards

2011 Informatics UK/EU Master's Scholarship 2010-2011

Computer skills

Basic	HTML, UML, SQL Server, Assembler, Verilog, LabView, Microsoft Robotics Studio, Corel Paintshop Pro, Autodesk 3ds Max
Intermediate	C++, JAVA, OpenOffice, Linux, Microsoft Windows, Microsoft Office Tools
Advanced	Matlab, Octave, LATEX

Certificates and activities

2008	CISCO - CCNA1 (Cisco Certified Network Associate)
2008	CISCO - Fundamentals of Java Programming
2008	Student Scientific Conference - POLITEHNICA University of Bucharest *Automated methods of detection for the QRS complex in the ECG*
2007	Summer Course BEST - Vrije Universiteit Brussel *Introduction into aero-spatial engineering*
2006	Summer Course BEST - Budapest University of Technology and Economics *Introduction to networking*
2006	Student Scientific Conference CERC - Technical Military Academy, Bucharest *The use of fractals in image compression*

Languages

English	Fluent	*Cambridge Advanced English Certificate*
Romanian	Native speaker	
German	Intermediate	
Italian	Intermediate	