


PERSONAL INFORMATION **Monica Drăgoicea**

 Automatic Control and Systems Engineering Department, Faculty of Automatic Control and Computers, University Politehnica of Bucharest
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Nationality Romanian

CURRENT POSITION **PhD Supervisor**

PhD study domain: – Systems Engineering

Research topics: – systems engineering
– modelling and simulation based systems engineering
– object-oriented design and analysis for real-time and embedded systems
– service systems engineering
– smart service design
– agent-based simulation
– agent oriented computing

Publications List of publications available under ORCID ID: orcid.org/0000-0002-4447-3219
Other IDs:
ResearcherID: F-3214-2015
Scopus Author ID: 34978432000

WORK EXPERIENCEFebruary 2016 – Present **Full Professor**

University Politehnica of Bucharest

Teaching topics: Real-Time Systems, Real-Time Applications Programming, Business Process Modelling, Foundations of Service Science

October 2005 – February 2016 **Associate Professor**

University Politehnica of Bucharest

Teaching topics: Real-Time Systems, Real-Time Applications Programming, Business Process Modelling, Foundations of Service Science

October 2001 – September 2005 **Lecturer**

University Politehnica of Bucharest

Teaching topics: Real-Time Applications Programming, Control Systems for Robots, Intelligent Control Systems for Mobile Robots, Modelling and Simulation, Programming Techniques

October 1993 – September 2001 **Teaching Assistant**

University Politehnica of Bucharest

Teaching topics: Programming Techniques, Control Engineering, Modelling and Simulation, Real-Time Applications Programming

EDUCATION

May 2016 **Habilitation - Thesis Title: "Advances in Service Systems Engineering: a Modelling and Simulation Approach"**

University Politehnica of Bucharest

- Keywords: service systems, service innovation, service systems engineering, modelling, simulation, multi-agent systems, socio-technical description in service systems
- Aim: a systems' approach on engineering smart customer-centric services with IT support

October 2000 **PhD - Thesis Title: "Contributions to the Design of Adaptive Control Systems Using Neural Techniques"**

University Politehnica of Bucharest

- Keywords: adaptive control, intelligent control techniques, artificial neural networks, system identification and control, neuro-control, adaptive control using neural networks, mechatronic systems, autonomy, mobile robots

January 1999 – November 1999 **Master of Science in Engineering Management**

Vienna University of Technology, Vienna, Austria

Oakland University, School of Business Administration, Rochester, Mi, USA

- Topics: Systems Engineering, Engineering Informatics, Project Management & Logistics, Accounting, Financing, Marketing, Operation Management, Human Factors, Technology, Marketing, International Law
- Aims: Extend and deepen knowledge of economic and legal issues of graduates from engineering schools. Providing education in technical sciences for business managers and legal experts.

1988–1993 **Bachelor of Science in Electrical Engineering - Automatic Control**

Faculty of Automatic Control and Computers

University Politehnica of Bucharest

- Major: Control Engineering

1984–1988 **High School Diploma**

"Nicolae Balcescu" High School, Bucharest, Romania

- Major: Mathematics - Physics

COMPLEMENTARY TRAINING

November 2012 ***Discovering the Value of IBM Business Process Manager Version 8, IBM Proof of Technology***

IBM Innovation Center Bucharest

March 2009 ***IBM Websphere Business Modeler, IBM Training Program***

IBM Linux Center, University Politehnica of Bucharest

September 2008 ***SAP20 - SAP R/3 Overview (BASICS), Processes in Procurement (MM), Manufacturing Planning and Execution for Discrete and Repetitive (PP), IBM Training Program***

IBM Linux Center, University Politehnica of Bucharest

December 1996 – July 1997 *System Identification and Control*, Research stage
Politecnico di Torino, Italy, TEMPUS JEP 7147

July 1994 *Robotics and Computer Aided Manufacturing*, Summer School
Krems, Austria, Technische Universität Wien, Wien, Austria

INTERNATIONAL COOPERATION

2014 – present Erasmus Inter-institutional Agreement Coordinator, RO BUCURES11 (University Politehnica of Bucharest) - P PORTO02 (University of Porto - FEUP), RO BUCURES11 - I ROMA 24 (Universitá Telematica Internazionale Uninettuno)

June 2013 – December 2014 IBM University Relations
IBM Romania

April 2013 *Development of a framework for innovative service delivery – services ecosystem for Smarter Buildings, a Service Science and Internet of Services perspective*, UNITE Secondment
Institute for the Development of New Technologies
New University of Lisbon (UNINOVA), Lisbon, Portugal

May 2012 *Innovative service delivery in the cloud through virtualization – a Service Science perspective*, UNITE Secondment
Faculdade de Engenharia (FEUP)
Universidade do Porto, Porto, Portugal

1996, 1998, 2001, 2002 *Intelligent Techniques for Real-Time Control, Neural Networks Applied in Adaptive and Learning Control, Adaptive Neuro-control, Brake-by-wire Systems*, DAAD Cooperation
Technical University of Darmstadt, Germany

PERSONAL SKILLS

Mother tongue Romanian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
	Toefl Certificate				
French	B2	C1	B2	B2	B1
Portuguese	A1	B2	A1	A1	A2
	Certidão, A 1.2, Faculdade de Letras da Universidade do Porto				

Levels: A1/A2: Basic user – B1/B2: Independent user – C1/C2: Proficient user
[Common European Framework of Reference \(CEF\) level](#)

- Computer and technical skills**
- Technologies: object oriented, multi-agent systems, UML / SysML
 - Modelling: object oriented, business process modelling, model driven development, service oriented
 - Programming: concurrent, object oriented
 - Modelling tools: IBM Rational Rhapsody, Bizagi Digital Business Platform, IBM Business Process Modeler, Matlab / Simulink, Maple, Mathematica, LabView
 - Programming languages: C, Java, Matlab
 - Operating systems: Windows, QNX

- Management skills**
- 2006–2008: Grant director, research grant title "*Automatic Generation and Broadcasting of Macroseismic Intensity Maps using Informational Networks*", partnership with the National Institute for Earth Physics (<http://www.infp.ro/en/>)
 - 2004–2005: Grant director, grant title "*Intelligent Vehicles and Behavioural Diversity in Mobile Robot Teams*", Research Grant, Young Researchers, research grant financed by the Ministry of Education in Romania
 - 2002: Grant director, project title "*Intelligent Approaches for Autonomous Mobile Robots*", DAAD Research Mobility, FH Konstanz Hochschule f. Technik u. Wirtschaft, Germany

ADDITIONAL INFORMATION

- Awards**
- 2015: UEFISCDI, Rewarding research results, article title "*Self-organizing socio-technical description in service systems for supporting smart user decisions in public transport*", Expert Systems with Applications, 42(17–18), 6329–6341, WOS:000356122000006
 - 2012: Best Paper Award: Track O&Q: Service Supply Systems and Networks Management Design, article title "*A Service Science Knowledge Environment in the Cloud*", 14th IFAC Symposium on Information Control Problems in Manufacturing, INCOM 2012
 - 2006: IBM Faculty Award, "*Embedded Control for Personal Transportation of Disabled People*"
 - 2000: "Werner von Siemens" Excellence Award, Best PhD Thesis

- Membership**
- ISSIP, International Society of Service Innovation Professionals
 - SCS, Society for Modelling & Simulation International
 - SRR, Robotics Society of Romania

- Committees**
- Steering Committee, International Conference on Exploring Services Science (IESS)
 - Editorial Board, International Journal of Artificial Intelligence (IJAI) (ISSN 0974-0635)
 - Editorial Board, International Journal of Imaging and Robotics (IJIR) (ISSN 2231-525X)
 - Editorial Board, Journal of Control Engineering and Applied Informatics (CEAI) (ISSN 1454-8658), 2001–2006
 - Technical Program Committee, International Symposium on Applied Computational Intelligence and Informatics (SACI)

- Peer-review**
- IEEE Systems Journal, Journal of Intelligent Manufacturing, Computers in Industry, INFORMS Service Science Journal, Complex Adaptive Systems Modelling, International Journal of Production Research, IET Intelligent Transport Systems Journal, Journal of Intelligent Systems, Scientific Bulletin of University Politehnica of Bucharest