

PERSONAL INFORMATION **Ioana-Corina BOGDAN**

✉ Corina.bogdan@unitbv.ro

Contact:

56 Nicolae Balcescu Street, Braşov, Brasov County, Romania
Corp K, Sala KB 11

PROFESSIONAL EXPERIENCE

- 2021 - Present Lecturer, Transilvania University of Brasov, Romania
Department of Electronics and Computers
- 2021 Lecturer Northeastern University, Boston, MA, USA
Department of Electrical Engineering and Computers
- 2019 – 2020 Scientific Collaborator Transilvania University of Brasov, Romania
Department of Electronics and Computers
- 2017 – 2019 Assistant Teaching Professor, Northeastern University, Boston, MA, USA
Department of Electrical Engineering and Computers
- 2015 - 2016 Research and Development Engineer, KAWASAKI Robotics Inc., MI, USA
Department of Advanced Engineering, Research and Development
- 2015 Invited Professor, Ecole Nationale d'Ingenieurs de Metz, France
Department of Design Manufacturing and Control – Arts et Métiers ParisTech of Metz

EDUCATION

- 2006 - 2010 PhD in Automation, Signal and Image Processing, and Computers
Engineering (Applications in Micro-Robotica)
Paul Verlaine University Metz (Lorraine University), France
- 2005 - 2006 Master of Research in Science and Technology, Specialization in Design,
Innovation and Industrialization,
Paul Verlaine University Metz (Lorraine University), France
- 2004 - 2005 Mechanical Engineering and Computer Integrated Manufacturing Student
Erasmus – Socrates Scholarship,
Paul Verlaine University Metz (Lorraine University), France
- 2001 - 2006 Electrical Engineering and Computers Science,
Specialization: Automation and Industrial Informatics
Transilvania University of Brasov, Romania

COMPETENCES

Romanian

Foreign Languages

	COMPREHENTION		SPEACKING		WRITING
	Listening	Reading	Conversation	Oral Presentation	
French	C	C	C	C	C
English	C	C	C	C	C

Level: C1/2: Experienced

Technical Competences

Operating Systems: Windows, RTAI Linux
Programming: C++, Visual C++6 (GUI), Visual Studio, AS Language for Kawasaki robots
Modeling and Simulation: Matlab/Simulink/GUI, LabVIEW, AutoCAD, OrCAD, Grafacet, K-ROSET, RobCAD
Applications: UML, IDEFx/IDEF3/IDEF0, CSS, Javascript, PHP
Experience: Kuka and Kawasaki Manipulator robots, Humanoid Robots, Flying Robots

Other Competences

Certification in "Cyber Supply Chain Security and Due Diligence Training Course", 2023.
Online Course Development, E-Campus, USA 2021.
E-Controllers Programming, Industrial Robots, Kawasaki Robotics, 2015.
The 4th Biennial North American Summer School on Surgical Robotics, Carnegie Mellon University, Pittsburgh, PA, 2014.
The 6th Annual q-bio Summer School on Cellular Information Processing, Computational Neuroscience Theme, US San Diego, CA, 2012.

**Publications
Presentations
Projects
Conferences
Seminars****Publications, Conferences, Journals, Books**

J. He, Y. Xiao, I.C. Bogdan, S. Nazarian, P. Bogdan, Design Methodology for Energy Efficient Unmanned Aerial Vehicles, (Journal Paper), Transactions on Design Automation of Electronic Systems, Vol. 27, Issue 1, no. 4, pages 1-20, 2022.

J. He, Y. Xiao, P. Bogdan, C. Bogdan: Design Methodology for Energy Efficient Unmanned Aerial Vehicles. CoRR abs/1909.11238 (2019).

I.C. Bogdan, E. Simion, Improving Facial expressions using Games Theory: Application to Hanson Android, Polytechnic University of Bucharest, Scientific Bulletin, Series C, Vol. 85, Iss. 1, ISSN 2286-3540, 2023.

I.C. Bogdan, T. Tarumi, D. Popa, A study of mathematical models used in the cerebral hemodynamics circulation, Polytechnic University of Bucharest, Scientific Bulletin, Series C, Vol. 85, Iss. 3, ISSN 2286-3540, 2023.

I.C. Bogdan, Modélisation et commande de systèmes linéaires de micro-positionnement : application à la production de micro-composants électroniques/Modeling and control of micro-positioning linear axis: application for manufacturing of micro-electronic device, theses.fr – Ioana Corina Bogdan, Modélisation et commande de systèmes linéaires de micro-positionnement : application à la production de micro-composants électroniques, September 23, 2010.

A.S. Jecu, A.G. Demeter, I.C. Bogdan, I.C., "Face-Tracking mount display for Medical and Engineering Applications", 2023 The 17 International Conference on Modern Electric Systems (EMES), Oradea, Romania, DOI: 10.1109/EMES58375.2023.10171630, 2023.

I.C. Bogdan, F.P. Velicea, "Biological barcodes for engineering and medical applications", (ISIM & ISWIM 2023, Book of Abstracts).

A.S. Jecu, A.G. Demeter, I.C. Bogdan, I.C., "Vital parameters monitoring using a portable device", (ISIM & ISWIM 2023, Book of Abstracts).

I.C. Bogdan, T. Takashi, D. Popa, A study of mathematical models used in the the cerebral hemodynamics circulation, (ISIM & ISWIM 2022, Book of Abstracts, ISSN 2821 – 8779, ISSN-L 2821 – 8779).

I.C. Bogdan and E. Simion, Improving Facial expressions using Games Theory: Application to Hanson Android, (ISIM & ISWIM 2022, ISSN 2821 – 8779, ISSN-L 2821 – 8779).

A. Habib, S. Das, I.C. Bogdan, D. Hanson, and D. Popa, "Learning Human-like Facial Expressions for the Android, Phillip K. Dick", International Conference on Automation Science and Engineering, Taiwan, 2014, DOI: 10.1109/CoASE.2014.6899473.

A. Habib, S. Das, I.C. Bogdan, D. Hanson, and D. Popa, "Learning Human-like Facial

Expressions for the Android Phillip K. Dick", IEEE International Conference on Robotics and Automation ICRA 2014 Workshop Hong Kong, China.

I.C. Bogdan, and G. Abba, "Identification of mechanical parameters at low velocities for a micro-positioning stage using a Velocity Hysteresis Model", 2012 IEEE International Conference on Robotics and Automation (ICRA), St. Paul, Minnesota, USA, pages 430 - 435, DOI: [10.1109/ICRA.2012.6224720](https://doi.org/10.1109/ICRA.2012.6224720).

I.C. Bogdan, and G. Abba, "Phenomenological modeling and identification of micro-positioning systems" (French), Proceedings of the 2010 IEEE Francophone International Conference of Automation (CIFA), Nancy, France.

I.C. Bogdan, and G. Abba, "Identification of the servomechanism used for micro displacement", Proceedings of the 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), St. Louis, Missouri, USA, pages 1986 - 1991, DOI: [10.1109/IROS.2009.5354592](https://doi.org/10.1109/IROS.2009.5354592).

Published Books

H. Modran, I.C. Bogdan, D. Ursutiu and C. Samoila, "Introducere in Programare Grafica LabVIEW si Aplicatii in Electronica, Telecomunicatii si Tehnologii Informatinale", 2024.

Sandu, F. si Bogdan, I.C. – Semnale si Sisteme – Analiza si Sinteza Circuitelor Electrice, Editura Universitatii Transilvania, Brasov, 2023 – ISBN: 978-606-19-1671-9.

I.C. Bogdan, Signals and Systems – From theory to practice (Book, Romanian version), MatrixRom, ISBN: 978-606-25-0630-8, 2021.

Selected Awards and Distinctions

AFCO 2023, Team Award Section for A.S. Jecu, A.G. Demeter coordinated by I.C. Bogdan, "Vital parameters monitoring using a portable device", Transilvania University of Brasov, Brasov, Romania.

AFCO 2023, Electrical Engineering Section Award for F.P. Velicea coordinated by I.C. Bogdan, "Biological barcodes", Transilvania University of Brasov, Brasov, Romania.

Dr. Kanako Miura Award of IEEE International Conference on Humanoid Robotics, Madrid, Spain, 2014.

Fellowship at University of Texas at Arlington, STEM Fellowship for Robotic Skin Development, 2013-2014.

Regional Council of Lorraine, Metz, France, Research Scholarship for RFID Tags Development, 2006-2008.

Socrates-Erasmus Scholarship, Mechanical Engineering and Computer Integrated Manufacturing, The University of Metz, 2005.

Transylvania University, Brasov - European Union Socrates Scholarship, 2004.

Transylvania University, Brasov - Dean's Honors List Scholarship, 2001-2006