

Europass **Curriculum Vitae**

Personal information First name(s) / Surname(s) Address(es) Telephone(s)

Octavian-Cezar Pastravanu

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Nationality Romanian

Date of birth 16/05/1957

Work experience

Dates	1994 - present							
Occupation or position held	Member of Academic Staff (Associate Professor 1994-1998, Full Professor 1998-present, PhD supervisor in "Systems Engineering" 2005 - present)							
Main activities and responsibilities	Taught Disciplines: Systems theory, Neural network applications in control engineering, Discrete event systems, Physical system modeling. Research areas: Qualitative analysis of dynamical systems, Artificial Intelligence, Petri nets Technical University "Gheorghe Asachi" of Iasi, Faculty of Automatic Control and Computer Engineering, Blvd. Dimitrie Mangeron Nr. 53A, Iaşi							
Name and address of employer								
Type of business or sector	Education and research							
Dates	1993 – 1994 (Academic year)							
Occupation or position held	Associate researcher (postdoc fellowship awarded by The University of Texas System)							
Main activities and responsibilities	Research areas: Discrete event manufacturing systems							
Name and address of employer	Automation and Robotics Research Institute, The University of Texas at Arlington, 7300 Jack Newell Blvd. S., Fort Worth, TX 76118, USA							
Type of business or sector	Research							
Dates	1992 – 1993 (Academic year)							
Occupation or position held	Associate researcher (postdoc fellowship awarded by The Belgian Gouverment)							
Main activities and responsibilities	Research areas: Artificial intelligence techniques in system identification and control							
Name and address of employer	Department of Electrical Energy, Systems & Automation, The University of Ghent, Technologiepark 913, 9052 GENT, Belgium							
Type of business or sector	Research							
Dates	1986 -1992							
Occupation or position held	Member of Academic Staff (Teaching Assistent 1986-1990, Assistant Professor 1990-1992)							
Main activities and responsibilities	Taught Disciplines: Systems theory, Numerical computation, Control engineering Research areas: Modeling and simulation techniques, Real-time applications for process control, Artificial intelligence – Symbolic computation.							
Name and address of employer	Technical University "Gheorghe Asachi" of Iasi (previously Polytechnic Institute), Faculty of Automatic Control and Computer Engineering, Dimitrie Mangeron no. 53A, Iaşi							
Type of business or sector	Education and research							
Dates	1982 - 1986							
Occupation or position held	Engineer							
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Main activities and responsibilities Name and address of employer Design, implementation and testing of software products

Control and computers: Discrete event manufacturing systems

fellowship awarded by The Belgian Gouverment)

PhD Diploma in Control Engineering

Control and Computer Engineering

National Institute for Research and Development in Automation IPA-TCT Bucharest, lasi Branch, Str. Horia Nr 5-8, lasi

Type of business or sector

Research and technological engineering

Education and training

1993 - 1994

Dates

Research specialization

Research specialization

Postdoctoral studies

Doctoral studies

Computers and Control

University studies

1977 - 1982

Title of qualification awarded Principal subjects/occupational skills covered

> Name and type of organization providing education and training Level in national or international classification

Automation and Robotics Research Institute, The University of Texas at Arlington USA (postdoc fellowship awarded by The University of Texas System) Postdoctoral studies

Control and computers: Artificial intelligence techniques in system identification and control

Department of Electrical Energy, Systems & Automation, The University of Ghent, Belgium (postdoc

Control and computers: Analysis and control techniques for systems with unknown parameters.

Engineering Diploma in Computers and Control, specialization Computers

Polytechnic Institute "Gheorghe Asachi" of lasi, Faculty of Electrical Engineering

Technical University "Gheorghe Asachi" of Iasi (previously Polytechnic Institute), Faculty of Automatic

Dates 1992 - 1993

Title of qualification awarded Principal subjects/occupational skills covered

> Name and type of organization providing education and training Level in national or international classification

> > Dates 1989 - 1992

Title of qualification awarded Principal subjects/occupational skills covered

> Name and type of organization providing education and training Level in national or international classification

> > Title of qualification awarded

Dates

Principal subjects/occupational skills covered

Name and type of organization providing education and training Level in national or international classification

Personal skills and competences

Mother tongue(s) | Romanian

Other language(s) Self-assessment European level (*) English French

Understanding			Speaking				Writing			
Listening		Reading		Spoken interaction		Spoken production				
C1	Proficient User	C1	Proficient User	C1	Proficient User	C1	Proficient User	C1	Proficient User	
C1	Independent User	C1	Proficient User	B2	Independent User	B2	Independent User	B2	Independent Use	

(*) Common European Framework of Reference for Languages

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Social skills and competences	Communication and negotiation skills. Proficient collaboration as a team member.					
Organizational skills and competences	Experience in managing academic activities (projects/collaborations on educational or scientific areas) at international and national level.					
Technical skills and competences	Information Technology and Systems Engineering					
Computer skills and competences	Advanced user - in accordance with professional tasks					
Driving license	B category.					
Additional information	Teaching and higher education development					
	Taught courses: Numerical methods, Systems theory, Discrete-event systems, Physical system modeling, Neural networks and fuzzy logic.					
	Textbooks and monographs: • 17 publications; • First monographs published in Romania on Petri nets (1997), bond graphs (2001).					
	Advances in higher education - • Ph.D. theses 5; • Knowledge-transfer papers 24.					
	International projects: Tempus-Phare • 0886 HECE (1991 - 1992), • 2011 IMPACT (1991 - 1994), • 11467 COMPANION (1996 - 2000) - member of the international steering committees.					
	Research					
	Current interests: • Polytopic and switching systems, • Discrete event systems, • Neural networks.					
	Previous interests: • Computer-aided analysis and design of control systems; • Process control; • Non-recursive models.					
	ResearcherID profile: http://www.researcherid.com/rid/B-8401-2011					
	GoogleScholar profile: <u>http://scholar.google.com/citations?user=7TDHHV8AAAAJ&hl=en</u>					
	h-index: • Web of Science 10, • Scopus 11, • Google-Scholar 16.					
	Citations: • Web of Science 470/415, • Scopus 663/570, • Google-Scholar 1285.					
	Indexed articles:• Web of Science (ISI) 72 (26 journals, 46 conferences), • Scopus 86 (29 journals, 57 conferences), • Google-Scholar 137 (49 journals, 88 conferences), • IEEE Xplore 49 (3 journals, 46 conferences), • Zentralblatt 56 (45 journals, 11 conferences), • DBLP 20 (12 journals, 8 conferences)					
	<i>Publications:</i> • Journal papers 54, • Conference papers 123, • Book chapters edited by international publishing houses 17, • Book and book chapters edited by national publishing houses 17.					
	Intellectual property: • US Patent 6,185,469 B1, • O.R.D.A. Certificate 1451/20.07.2004.					
	R&D grants: • Coordinator 5, • Partner team leader 2, • Team member 20.					
	R&D projects for enterprises: • The MathWorks Inc. – Third-Party Products (Petri Net Toolbox).					
	Awards					
	 "Tudor Tănăsescu" Award of the Romanian Academy (2007) for a group of papers on "Flow invariance in the qualitative analysis of dynamical systems" – published in 2005. 					
	• Fellowship awarded by the University of Texas System (1993) for postdoctoral studies in Technical Sciences (Discrete event manufacturing systems).					
	Fellowship awarded by the Belgian Government (1992) for postdoctoral studies in Technical Sciences (Artificial intelligence).					
2	Synergistic activities					
	Member of the Academy of Technical Sciences of Romania ASTR (2005 - present). Secretary of the ASTR Branch in lasi.					
	Member of the Committee "Engineering Sciences" of the National Research Council CNCSIS (2006 - 2011), CNCS (2011 - 2013).					
•	Member of the Committee "Computers, Information Technology and Systems Engineering" of the National Council of Titles, Diplomas and Certificates CNATDCU (2011 - present).					
	Member of Technical Committee TC 1.3. Discrete Event and Hybrid Systems – IFAC "International Federation of Automatic Control" (2005 - present).					
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Work (10 relevant papers)

ers) Pastravanu, O., Matcovschi, M., 2015, Sufficient conditions for Schur and Hurwitz diagonal stability of complex interval matrices, *Linear Algebra and Its Applications*. vol. 467, pp. 149–173, ISSN: 0024-3795.

Pastravanu, O., Matcovschi, M., 2014, Max-type copositive Lyapunov functions for switching positive linear systems, *Automatica-IFAC*, vol. 50, no. 12, 3323–3327, ISSN: 0005-1098.

Pastravanu O., Matcovschi M., 2011, Comments on "Assessing the stability of linear time-invariant continuous interval dynamic systems", *IEEE Trans. Automatic Control*, vol. 56, no. 6, 1442-1445, ISSN: 0018-9286.

Pastravanu, O., Matcovschi, M., 2010, Linear Time-Variant Systems: Lyapunov Functions and Invariant Sets Defined by Holder norms, *Journal of the Franklin Institute*, vol. 347, issue 3, pp.627-640, ISSN 0016-0032.

Vrabie, D., Pastravanu, O., Abu-Khalaf, M., Lewis, F.L., 2009, Adaptive optimal control for continuoustime linear systems based on policy iteration, *Automatica-IFAC*, vol. 45, no. 2, 477-484, ISSN: 0005-1098.

Pastravanu, O., Matcovschi, M., 2005, Absolute componentwise stability of interval Hopfield neural networks, *IEEE Trans. Systems Man and Cybernetics B*, vol. 35, no. 1, 136-41, ISSN: 1083-4419.

Pastravanu, O., Voicu, M., 2004, Necessary and sufficient conditions for componentwise stability of interval matrix systems, *IEEE Trans. Automatic Control*, vol. 49, no. 6, 1016-21, ISSN: 0018-9286.

Mahulea, C., Matcovschi, M., Pastravanu, O., 2004, Petri Net Toolbox for MATLAB, *The MathWorks Inc.* USA, *Third-Party Products*

http://www.mathworks.com/products/connections/product_detail/product_35741.html.

Lazar, M., Pastravanu, O., 2002, A neural predictive controller for non-linear systems, *Mathematics and Computers in Simulation*, 60, 3-5, 315-24, ISSN 0378-4754.

Lewis, F.L., Tacconi, A., Pastravanu, O., Gurel, A., 2001, Method and apparatus for testing and controlling a flexible manufacturing system, *United States Patent and Trademark Office, No. 6,185,469 B1*, Date of Patent: Feb.6, 2001.

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http://www.freepatentsonline.com/6185469.html.

April 2, 2017

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