

Curriculum vitae Europass



Personal information

Surname / First name

Address

Phones/Fax

E-mail

Webpages

SELIŞTEANU, Dan

University of Craiova, A.I. Cuza 13, 200585, Craiova, Romania

(0040-251) 438198

dan.selisteanu@edu.ucv.ro ; dansel@automation.ucv.ro

Brain-map: <https://www.brainmap.ro/dan-selisteanu>

ORCID: <https://orcid.org/0000-0002-9770-405X>

Web of Science ResearcherID: <https://publons.com/researcher/2273169/dan-selisteanu/>

Google Scholar: <https://scholar.google.com/citations?user=XESJiq8AAAAJ&hl=ro&oi=ao>

Nationality

Romanian

Date of birth

18.11.1964

Gender

M

Occupational field

Work experience

Dates

10.10.1991 – present

Occupation or position held

Professor (01.10.2007 – present)

Assoc. professor (01.10.2002 – 30.09.2007)

Lecturer (01.03.1999 – 30.09.2002)

Assist. professor (04.10.1993 – 28.02.1999)

Instructor (10.10.1991 – 03.10.1993).

Main activities and responsibilities

Didactical activity (Lectures in: Control Engineering, Data Acquisition Systems, Bioengineering, etc.)

Research activities

Project and academic management

Name and address of employer

UNIVERSITY OF CRAIOVA

A.I. Cuza no. 13, 200585, Craiova, Romania

Type of business or sector

Higher education and research:

University of Craiova,

Faculty of Automation, Computers and Electronics,

Department of Automatic Control and Electronics

Dates

15.01.1991 – 09.10.1991

Occupation or position held

Engineer

Main activities and responsibilities

Service and field engineer – Computer Numerical Control for Machine Tools

Name and address of employer

ROMSERVICE Ltd.

Bucharest, Romania

Type of business or sector

Industry

Dates

02.10.1989 – 14.01.1991

Occupation or position held

Engineer

Main activities and responsibilities

Service and field engineer – Computer Numerical Control for Machine Tools

Name and address of employer

IIRUC – COMPUTING TOOLS MAINTENANCE ENTERPRISE, XV Section

Bucharest, Romania

Type of business or sector

Industry

Education and training

Dates	1992 – 1999
Title of qualification awarded	Ph.D. in Control Systems
Principal subjects/occupational skills covered	Disciplines in the field of Automation and Computers; Research projects in Control Systems; Research competencies in the specified field.
Name and type of organization providing education and training	University of Craiova
Dates	1984-1989
Title of qualification awarded	B. Eng., specialization Automation and Computers
Principal subjects/occupational skills covered	Mathematics, Physics, Mechanics, Electronics, Computers, Programming, Control Systems, Automation, Economics, Foreign languages, etc.
Name and type of organization providing education and training	University of Craiova
Dates	1979 – 1984
Title of qualification awarded	Baccalaureate Diploma
Principal subjects/occupational skills covered	Mathematics, Physics, Informatics, Biology, Chemistry, Geography, etc., according to the curriculum.
Name and type of organization providing education and training	"Frații Buzești" Mathematics-Physics High School, Craiova

Professional specializations and postdoctoral grants

Dates, Name and type of organization providing education and training	1990, <i>Training course</i> "Programming and mechanical and electric maintenance of YBM90 Unimeric CNC 723 Machine Tools with Computer Numerical Control" / CSEPEL Szerszamgepayarto, Budapest, Hungary
Dates, Name and type of organization providing education and training	2005, <i>Postdoctoral research grant</i> "Synthèse des lois de commande non-linéaire. Télé-manipulation par Internet des systèmes automatisés", AUF – Agence Universitaire de la Francophonie / CNRS Heudiasyc & Université de Technologie de Compiègne, France

Management positions

Vice-rector (Research and liaison with business environment), University of Craiova (2020-2024)
President, Scientific Research Council of the University of Craiova (2020-2024)
Dean, Faculty of Automation, Computers and Electronics (2016-2020)
Vice-dean (Education and research), Faculty of Automation, Computers and Electronics (2012-2016)
Member of the University of Craiova Senate (2012-2016, 2020-2024, 2024-)
Member of the Council for Doctoral University Studies of IOSUD – University of Craiova (2025-)
Member in the Administration Council of the University of Craiova (2016-2024, 2025-)
Member in the Scientific Research Council of the University of Craiova (2012-2016)
Member in the Council of Faculty of Automation, Computers and Electronics (2012-2024, 2024-)

Skills and competences

Mother tongue

Other languages/self-assessment

European level (*)

English Language

French Language

Romanian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Experienced user	C1	Experienced user	B2	Independent user	B2	Independent user	C1	Experienced user
C1	Experienced user	C1	Experienced user	B2	Independent user	B2	Independent user	B2	Independent user

(*) Common European Framework of Reference for Languages

Social skills and competences

Teamwork abilities (experience accumulated within the research grants and projects); Multi and inter-cultural work environment adaptability (experience accumulated in the frame of international mobility actions – research stages, fellowships, etc.); Communication skills and group communication abilities.

<p>Organizational skills and competences</p>	<p>Experience / courses in higher education management and project management</p> <ul style="list-style-type: none"> - Graduation of courses in the field of higher education management, in the frame of the project: "Capacity building of the Ministry of Education and Research to monitor and forecast the evolution of higher education in relation to employment", Romanian Academy, Ministry of National Education, SPOCA 3, SMIS 2014+: 59947, February 2019. - Postgraduate project management and training courses (Specialization program for <i>Project managers</i>, MENCS, 2018; <i>Security Systems Engineering</i>, 2009-2010, MEC). - Experience in project management, as director/responsible/scientific coordinator or team member of research grants and projects at national and international level, as well as coordinator and expert in projects financed from European funds. <p>Conference organization: Organizing committees' member or chair positions (selection)</p> <ul style="list-style-type: none"> - European Control Conference ECC (2023) [IEEE, IFAC] - International Conference on Emerging Technologies and Factory Automation ETFA (2023) [IEEE] - International Conference on System Theory, Control & Computing ICSTCC (2010-2025) [IEEE] - International Carpathian Control Conference – ICCC (2008-2010, 2017, 2022) [IEEE] - System Theory Symposium SINTES, Craiova, Romania (1996, 1998, 2000, 2003, 2005, 2007) - IFAC Workshop on Time Delay Systems TDS (2009) [IFAC] - Réunion ECO-NET: <i>Dynamique-Interconnexions-Environnement</i> France, (2007) [ÉGIDE, CNRS] <p>Technical skills and competences</p> <p>Expert evaluator - national and international programmes</p> <ul style="list-style-type: none"> - International expert - Register of Scientific Experts, MIUR, Italy, since 2018: <ul style="list-style-type: none"> • Programma per Giovani Ricercatori "Rita Levi Montalcini" 2018, 2019; Period of review activity: 2019, 2020, 2021, 2022 • Progetti di Ricerca di Rilevante Interesse Nazionale 2017, 2020; Period of review activity: 2018, 2021 - International expert for the project Foresight Programme: "Advanced industrial and ecological technologies for the sustainable development of Poland", 2010 - Expert evaluator - CNCSIS (National University Research Council), since 2008. Recent activities: <ul style="list-style-type: none"> • PNCDI IV, Transfer to the economic operator projects (PTE 2024), Period of review activity: 2024 • Projects for institutional development (FDI 2024, 2025), Period of review activity: 2024, 2025 • PNRR, C15, Grants for the digitalization of universities (GDU 2022), Period of review activity: 2022 • PNCDI III, Postdoctoral Research Projects (PD 2019), Period of review activity: 2019, 2020 • PNCDI III, Research Projects for Young Independent Teams (TE 2019), Period of review: 2019, 2020 • PNCDI III, Solutions, Call year: 2017, Period of review activity: 2018 • PNCDI III, PD 2016 and TE 2016, Call year: 2016, Period of review activity: 2017, 2018 - Member of CNATDCU Committee 15: Computers, Information Technology & Systems Eng., 2020-2024 - Member of the ARACIS Consultative Committee, since 2021 - Member of the National Commission for Financing Higher Education CNFIS, since 2023 <p>Reviewer (selection)</p> <p>Journals:</p> <p><i>IEEE Trans. Industrial Electronics, IEEE Trans. Automation Science & Engineering, IEEE Trans. Circuits & Systems, IEEE Trans. Systems, Man & Cybernetics: Systems, IEEE Access, IEEE/CAA J. Automatica Sinica, IEEE Sensors J., ISA Trans., Neural Computing & Appl., IET Control Theory & Appl., IET Electric Power Appl., Int. J. Adaptive Control & Signal Processing, Bioresource Technology, European J. Control, Computers & Chemical Eng., IMA J. Mathematical Control & Information, J. Franklin Institute</i>, etc. [all indexed in ISI WoS – Clarivate Analytics]</p> <p>Conferences:</p> <p><i>IEEE/IFAC Int. Conf. on Methods and Models in Automation & Robotics MMAR 2015-2024; Int. Conf. on Control, Automation, Robotics and Vision ICARV 2020, 2022; IFAC World Congress 2011, 2017, 2020, 2023; American Control Conf. 2012; IFAC Int. Symp. on Advanced Control of Chemical Processes ADCHEM 2015; European Control Conf. ECC 2020, IFAC Workshop on Control of Complex Systems COSY 2022, IFAC Symp. on System Structure & Control SSSC 2022</i>, etc.</p> <p>Computer skills and competences</p> <p>Programming languages and environments: MATLAB/Simulink, LabView, NI Multisim, 20sim, GeoMedia, ArcGIS, OrCAD, etc.</p> <p>Various computer applications: Office, Graphics applications, Statistical applications, etc.</p>
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Habilitation and PhD advisor

Habilitation Thesis: *Research and Achievements in Modelling and Control of Bioprocesses*, 2016

PhD advisor: 9 PhD students in stage (of which 2 in cotutelle with University Metropolitan Tirana, Albania), 8 PhD theses defended (of which 1 in cotutelle)

Member in PhD / Habilitation Committees abroad (selection)

- PhD Thesis, Dr. Matthieu Borelle, *Robust estimation techniques: distributed moving horizon estimation for sensor networks and distributionally robust estimation*, Paris-Saclay University, France, 2025
- PhD Thesis, Dr. Jiang You, *Time Series Forecasting, Anomaly Detection and Prediction*, Paris-Est Créteil University, Franța, 2024
- PhD Thesis, Dr. Antonello Venturino, *Constrained distributed state estimation for surveillance missions using multi-sensor multi-robot systems*, Paris-Saclay University, France, 2022
- PhD Thesis, Dr. Rajeshree Ramjug-Ballgobin, *Observation and control for continuous dynamical systems with discrete measurements and application to wastewater treatment systems*, University of Mauritius, Mauritius, 2022
- PhD Thesis, Dr. Dory Merhy, *Contribution à l'estimation d'état par méthodes ensemblistes ellipsoïdales et zonotopiques*, CentraleSupélec, Université Paris-Sud, France, 2019
- Habilitation Thesis, Dr. Sihem Tebbani, Faculté des Sciences d'Orsay, Université Paris-Sud, 2016
- PhD Thesis, Dr. Helem S. Sanchez, *Multi-objective optimization and multicriteria design of PI /PID controller*, Universitat Autònoma de Barcelona - UAB, Spain, 2016
- PhD Thesis, Dr. Karen V. Gonzalez, *Modélisation et commande robuste des systèmes biologiques: exemple de la production d'acide lactique en fermenteur industriel*, CentraleSupélec, France, 2015

Projects and grants

Summary

Contributions to the development of research and educational infrastructure

International research projects / grants: 5 (1 as director)

National research projects / grants: more than 25 (4 as director)

Budget of the research projects: over 2.000.000 Euro (as director / responsible)

European Funds projects / programs: 6 (2 as coordinator)

Educational projects (Erasmus, Leonardo da Vinci): 2

- Head of the research laboratory *Modelling, identification and control of biochemical & biotechnological processes MICBIO*, within INCESA – “Research Infrastructure in Applied Sciences”, POSCCE contract, SMIS-CSNR 13845, no. 256/2010, 2011-2015 (manager prof. N. Bîzdoacă), INCESA total budget 12.400.000 Euro, MICBIO budget over 200.000 Euro (equipment)
- Board member of the *Multimedia platform for teaching, research and development of applications in mechatronics and automation*, CNCSIS Platforms/ laboratories of interdisciplinary research grant (manager prof. M. Ivănescu), 2006-2008, no. 4873/2006 (1.400.000 Euro for equipment acquisition)
- Contributions to projects to modernize/equip/rehabilitate the infrastructure at the Faculty of Automation, Computers & Electronics through collaborations with the economic environment (Hella, QFort, Netrom, Continental, Caphyon, SintecMedia, SyncroSoft, etc.), budget of over 250.000 Euros (2016 -2025)
- Project manager POR 123506, *Rehabilitation and modernization of educational infrastructure - buildings G(C12), H(C16), I(C13), J(C14) and K (C15) from the complex of electrical profile faculties*, University of Craiova, budget over 6.000.000 Euro (2021-2024).

Research projects (selection)

European University for Cross-Border Knowledge Sharing - ACROSS, ID_101177485, European Universities Alliance, 10 universities [2025-2029, buget total 18.245.763 Euro, Leader of WP3 Research & Innovation]

TISIPRO Research and knowledge transfer in the field of information technologies and software instruments for industrial processes, POC Partnerships, SUIM P_40_416, national project, European funds [2016-2021, approx. budget 1.370.000 Euro, Technical/scientific coordinator]

ADCOSBIO Advanced control systems for bioprocesses in food industry, PNCDI II Partnerships, 211/2014, national project [2014-2017, approx. budget 270.000 Euro, Director]

Research for the implementation of advanced maintenance system for automotive industry to increase the competitiveness level, Competitiveness Pole "Automotive South-West Oltenia", SMIS 50138, national project [2014-2015, approx. budget 160.000 Euro, Coordinator: control systems]

PACBIO Predictive and adaptive control of bioprocesses - Modelling, identification, control applications for interconnected bioprocesses, RO-FR-2012-1-0008, 701/2013, international bilateral project (France-Romania) [2013-2014, approx. budget 12.000 Euro, Director of Romanian partner]

A web-based e-training platform for Extended Human Motion Investigation in Orthopaedics ORTHO-eMAN, LLP-LdV/Tol/2011 (Romania, Spain, Greece) [2011-2013, budget 348.101 Euro, Member]

Development of models and identification and control methods for biotechnological and biological systems, PNCD II IDEAS, ID 548, national project [2009-2011, approx. budget 105.000 Euro, Director]

Additional information

Research interests	Control systems, Bioprocess modelling and control, Wastewater treatment plants, Adaptive control, Intelligent control, Virtual instrumentation and data acquisition, Interactive teaching systems
Publications, awards, and memberships	<p>Publications</p> <ul style="list-style-type: none">- Monographs, manuals and chapters: 20- Papers in ISI or IDB indexed journals: more than 50, from which 30 in Q1/Q2 quartiles of ISI WoS, cumulated Impact Factor (IF) ISI WoS: over 150- Papers in conferences proceedings: more than 100- Citations: over 1500, h-index 12 / 13 / 17 (WoS/Scopus/GoogleScholar) <p>Prizes / Awards</p> <ul style="list-style-type: none">- <i>Man of Merit - Lodz University of Technology</i>, awarded by the Senate of Lodz University of Technology, Poland, „For merits to Lodz University of Technology”, 2017- <i>AGIR 2023 Diploma</i>, awarded in 2024, for the book: <i>Complex intelligent control systems for permanent magnet synchronous motors and power electronic converters</i>, ASTR, AGIR Publ. House, Bucharest, 2023, authors: M. Nicola, D. Selișteanu, C.I. Nicola- Over 10 CNCSIS / UEFISCDI prizes for research results (PN-II-RU-PRECISI)- 6 Best Paper Awards <p>Memberships</p> <ul style="list-style-type: none">- Corresponding member of the Romanian Academy of Technical Sciences ASTR, since 2025- IEEE Senior Member (Institute of Electrical and Electronics Engineers: CSS – Control Systems Society, RAS – Robotics and Automation Society), IEEE member since 2004- KES International (Knowledge-Based and Intelligent Information & Engineering Systems), Society: Intelligent Systems, since 2011- Member of IFAC (International Federation of Automatic Control) Technical Committee TC 8.3. Modelling & Control of Environmental Systems (CC8 Bio- and Ecological Systems) since 2017- Member of IFAC TC 2.2. Linear Control Systems (CC 2 - Design Methods) since 2022- AGIR (General Association of Engineers in Romania), since 2016- SRR (Romanian Robotics Society), since 1998- SRAIT – IFAC-NMO (Romanian Society of Automatics and Technical Informatics), since 1991- Scientific chancellor of Research Laboratory <i>Nonlinear Automation and Intelligent Systems ANSI</i>
Mobility, lectures and stages	<p>Visiting professor</p> <ul style="list-style-type: none">- Institute of Automatic Control, Lodz University of Technology, Poland, March / June 2016, courses: <i>Computer Simulation of Control Systems</i> <i>Fundamental Problems of Automatics</i> <p>Erasmus lectures and stages (selection)</p> <ul style="list-style-type: none">- Training Mobility, Comenius University in Bratislava, Department of Informatics Education, Slovak Republic, August 2017 (Prof. Zuzana Kubincová)- Erasmus+ workshop, project Playful Coding - Learn2Code and Code2Learn (Spain, Italy, France, UK, Romania), Girona, Spain, May 2016 (Prof. Xavier Cufí)- Teaching Mobility, <i>Virtual instrumentation. Educational applications for signal generation and digital signal processing</i>, University of Miskolc, Department of Automation and Info-communication, Hungary, October 2015 (Prof. József Vásárhelyi) <p>International specializations and stages (selection)</p> <ul style="list-style-type: none">- Ecole Supérieure d'Electricité (SUPELEC), Département d'Automatique, Gif-sur-Yvette, France (June 2010, PREDICT grant)- University of Padua - Vicenza branch, Italy (September 2009, Research grant)- SUPELEC, Laboratoire des Signaux et Systèmes – CNRS, Gif-sur-Yvette, France (November 2006, Research grant, ECONET)- Ecole Supérieure d'Ingénieurs en Electronique et Electrotechnique - ESIEE Noisy Le Grand, Paris, France (April-May 2002, Research grant)- Vienna University of Technology - TUW, Austria, (March 2002, Research grant)- University of Padua, Italy (2000, Research grant)- Royal Institute of Technology - KTH Stockholm, Sweden (1998, TEMPUS grant)- Université Libre de Bruxelles - ULB, Belgium (1994, TEMPUS)

Editorial activity**Member in Editorial Boards**

Complexity (Academic Editor), Wiley & Hindawi [ISI - Clarivate Analytics, Q2, IF=1.7], since 2018

Acta Polytechnica Hungarica (Associate Editor) [ISI - Clarivate Analytics, Q2, IF=1.8], since 2020

International Journal of Artificial Intelligence (Editor) [Scopus], 2017-2023

Intelligent Industrial Systems, Springer, 2015-2017

Journal of Environmental Management and Tourism [Scopus], since 2010

System Theory, Control and Computing Journal, Associate Editor-in-Chief, since 2021

Plenary speaker / Chair (co-chair) special sessions or issues (selection)

Plenary speaker, „Wastewater Treatment Plants – Classical vs. Advanced and Intelligent Control Approaches”, *IEEE 16th International Symposium on Applied Computational Intelligence and Informatics SACI 2022*, Timișoara, Romania

Special Issue "Advances in Electrical Power System Quality", *Energies* 2024, [ISI], M. Nicola, P.M. Nicolae, D. Selișteanu

Special Issue „Dynamics and Intelligent Control of Complex and Switched Systems”, *Automation* 2022, [ISI], M. Nicola, D. Selișteanu, C. Ionete

Special Issue „New Frontiers in Electrical Power Systems Quality”, *Energies* 2022, [ISI], M. Nicola, P.M. Nicolae, D. Selișteanu

Special Session „Modeling and Control of Biotechnological Processes”, *24th Int. Conf. on System Theory, Control and Computing ICSTCC 2020*, Romania

Special Session „Modelling, Estimation and Control of Biotechnological Processes”, *17th Int. Conf. on System Theory, Control and Computing ICSTCC 2013*, Sinaia, Romania

Special Session „Intelligent Techniques for Modelling, Identification and Control of Bioprocesses”, *3rd Int. Conference on Intelligent Decision Technologies KES-IDT 2011*, Piraeus, Greece

Special Session „Sliding Mode Control”, *13th IEEE/IFAC Int. Conference on Methods and Models in Automation and Robotics MMAR 2007*, Szczecin, Poland

Special Session „Sliding Mode Control”, *12th IEEE Int. Conference on Methods and Models in Automation and Robotics MMAR 2006*, Miedzyzdroje, Poland

IPC Conference Member (selection)

EAEEIE Conference on Innovation in Education for Electrical & Information Engineering 2007, 2012-2014; *International Carpathian Control Conference* 2011-2013, 2015-2025; *IEEE International Symposium on Applied Computational Intelligence & Informatics SACI* 2011-2024; *International Conference on Control, Decision and Information Technologies CoDIT* 2022-2025; *IEEE International Conference on Automation, Quality and Testing, Robotics AQTR* 2012, 2014, 2016, 2018, 2020, 2022, 2024; *International Conference on System Theory, Control and Computing ICSTCC* 2012-2025; *1st IFAC Workshop on Control of Complex Systems COSY* 2022; *8th IFAC Symposium on System Structure and Control SSSC* 2022, etc.

International collaborations (research and educational projects, papers, conferences)

Prof. Andrzej BARTOSZEWCZ, Director of the Institute of Automatic Control, Lodz University of Technology, Corresponding member of the Polish Academy of Sciences, POLAND

Prof. Arben CELA, Laboratoire Images Signaux et Systèmes Intelligents, ESIEE Paris, University Gustave Eiffel, FRANCE

Prof. Velislava LYUBENOVA, Institute of Robotics, Bulgarian Academy of Sciences, Sofia, BULGARIA

Prof. Paolo MERCORELLI, Control and Drive Systems Unit, Institute of Product and Process Innovation, Leuphana University of Lüneburg, GERMANY

Prof. Silviu-Iulian NICULESCU, Directeur de recherche CNRS, Laboratory of Signals and Systems, CentraleSupélec, Paris-Saclay University, FRANCE

Prof. Sorin OLARU, CNRS Laboratory of Signals and Systems, CentraleSupélec, Paris-Saclay University, FRANCE

Prof. Sihem TEBBANI, CNRS Laboratory of Signals and Systems, CentraleSupélec, Paris-Saclay University, FRANCE

Prof. Maria Elena VALCHER, Department of Information Engineering, University of Padova, ITALY

Prof. József VÁSÁRHELYI, Inst. of Automation & Info-communication, University of Miskolc, HUNGARY

Prof. Ramon VILANOVA i ARBOS, Department of Telecommunication and Systems Engineering, Autonomous University of Barcelona, SPAIN

Prof. Antonio VISIOLI, Department of Mechanical and Industrial Eng., University of Brescia, ITALY

Prof. Elena ZATTONI, Department of Electrical, Electronic and Information Engineering "G. Marconi" and Collegio Superiore, Alma Mater Studiorum Università di Bologna, ITALY

Prof. Dan Selișteanu, PhD