

# CURRICULUM VITAE

PROF. DR. HABIL. ENG. DANIELA DANCIU

May 2024

## PERSONAL DATA

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ORCID: <http://orcid.org/0000-0002-3854-2986>

Web of Science researcher: <https://www.webofscience.com/wos/author/record/HPD-4610-2023>

SciProfiles: <https://sciprofiles.com/profile/daniela-danciu>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=23392052600>

Google Scholar:

<https://scholar.google.com/citations?user=SQEed30AAAAJ&hl=en&oi=ao>

Web personal: <https://sites.google.com/view/danieladanciu/home>

## DEGREE INFORMATION

- **Habilitation in Systems Engineering**, University of Craiova, Habilitation Thesis: „Qualitative Analysis and Control of Nonlinear Systems. Computational Modeling and Stabilization of Distributed Parameter Systems”, 2019.
- **Ph.D. in Automatic Control**, Distinction “Cum Laude”, Ph.D. Thesis „Qualitative Problems in the Dynamics of Neural Networks”, Ph.D. advisor: Prof. V. Răsvan, University of Craiova, 2003.
- **B. Eng., Specialization Automation and Computers**, Faculty of Automation and Computers, University of Craiova, 1985-1990.

## PROFESSIONAL EXPERIENCE

### CURRENT POSITION

- **Full Professor** (2019-present) - University of Craiova, Faculty of Automation, Computers and Electronics, Department of Automatic Control and Electronics;
- **PhD Advisor** (2019-present) - University of Craiova;
- **Member in the Committee of the Doctoral Studies School “Constantin Belea”** (2020-present) - University of Craiova;

### PAST POSITIONS

- **Associate Professor** (2008 – 2019) - University of Craiova, Faculty of Automation,

Computers and Electronics, Department of Automatic Control and Electronics;

- **Assistant Professor** (2003 – 2008) - University of Craiova, Faculty of Automation, Computers and Electronics, Department of Automatic Control;
- **Lecturer** (2000 – 2003) - University of Craiova, Faculty of Automation, Computers and Electronics, Department of Automatic Control;
- **Affiliated Teaching Assistant/Researcher** (1990-1991, 1993-2000) - University of Craiova, Faculty of Automation, Computers and Electronics, Department of Automatic Control;
- **Software Engineer** (1999 – 2000) – Computer Center, AJOFP Dolj, Craiova;
- **Software Engineer** (1993 – 1999) – Computer Center, DOLJCHIM S.A., Craiova;
- **Engineer** (1990 – 1993) – Department of Control & Instrumentation, S.E. Turceni Thermo-Power Plant, Turceni.

## RESEARCH EXPERIENCE

### PUBLICATIONS

- PhD theses: 1
- Habilitation theses: 1
- Monographs and handbooks in national publishing houses (CNCIS recognized): 6
- Book chapters in international publishing houses: 5
- Papers in journals indexed ISI WoS and in international scientific databases: 34
- Papers published in international conference proceedings indexed ISI WoS and other international scientific databases: over 50
- Citations: over 110 (WoS), over 205 (Scopus), over 345 (Google Scholar)
- h-index: 6 (*ISI WoS, Clarivate Analytics*), h-index: 9 (*Scopus*), h-index: 11 (*Google Scholar*)

### RESEARCH PROJECTS

- **International projects won by competition**
  - **Director / Coordinator for University of Craiova and Principal Investigator**
    - ♦ ***Systems with Propagation: New Approaches in Control Design for Oscillations Quenching*** – *ProCO*, international grant won by competition, financed by MCI, CCCDI-UEFISCDI, Code: PN-III-P3-3.1-PM-RO-FR-2016-0055, Contract: 78 BM/2017, UEFISCDI no.: PN3-P3-229/04.04.2017, PN III, Program 3: International and European Cooperation, Subprogram 3.1 Bilateral/Multilateral, Bilateral Cooperation România-Franța "Brâncuși". Research and implementation RO-FR team: 11 members (8 researchers, 2 PhD students, 1 master student), Partner: Islam Boussaada, Laboratoire des Signaux et Systèmes (L2S), CNRS – Centrale Supélec - Université Paris Sud, France, Duration: 24 months, 2017-2018, Budget UCV: 22.356 RON (aprox. 4.970 EURO). **Director and Principal Investigator: Daniela Danciu.**
    - ♦ ***Brain-inspired technologies for intelligent navigation and mobility***, Acronym: *iNavigate*, Programme: H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge, Funding Scheme: MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE),

Project Number: 873178/07.11.2019, Duration: 66 months, 2019-2025, Budget UCV 59.800 EURO. <https://cordis.europa.eu/project/id/873178>  
**Coordinator and Principal Investigator for Romanian/UCV team: Daniela Danciu.**

➤ **Member**

- ♦ ***ECO-NET DIE: Dynamique – Interconnexions – Environnement***, international research grant won by competition, Contract no. 12645SD, Egide, France, Partners: HEUDIASYC - CNRS, Compiègne; LAAS - CNRS, Toulouse; IRCCYN, Nantes; University of Craiova; Research centre ACPC - University „Politehnica” București; University „Tomaš Bata” Zlin, Czech Republik; University of Miskolc, Hungary. Director: Silviu Niculescu, 2006-2007.

▪ **National projects won by competition**

➤ **Director and Principal Investigator**

- ♦ ***Advanced computational system based on neural networks, for automated assistance of the diagnosis in ophthalmology*** – grant CNCSIS type A, code 157, 51GR/04.05.2006 - 26C/17.04.2007, awarded in the national grant competition of National Council of Scientific Research of the High School (CNCSIS); Research and implementation team: 7 members (1 researcher, faculty member at UMF Craiova; 1 ophthalmologist; 2 software engineers (IPA CIFATT Craiova); 1 engineer PhD student (UCV); 2 master students at UCV, Fac. Automation, Computers and Electronics), Duration: 24 months, 2006-2007, **Director and Principal Investigator for the Romanian team: Daniela Danciu.**
- ♦ ***Distributed parameter systems: analysis, synthesis via Lyapunov functionals for control, numerical approximation and neurocomputing implementation*** – research grant won in the internal competition of the University of Craiova, type: Interdisciplinary research (fields: Systems engineering and Mathematics), Contract 10C/2014, Research and implementation team: 7 members (4 researchers, faculty members at UCV; 1 researcher, faculty member at Univ. of Malaga; 2 master students at UCV), Duration: 15 months, 01/2014 – 03/2015, **Director and Principal Investigator: Daniela Danciu.**

➤ **Member**

- ♦ ***Stability and oscillations in the dynamics of man-machines systems*** – Contract CNCSIS PNCDI II nr. 95/01.10.2007, IDEI Program, type: Exploratory research projects, Director: V. Răsvan, 09/2007 – 09/2010.
- ♦ ***Nonlinear robust control of the cryogenic separation columns for the izotop 13C*** – Contract CNCSIS PNCDI II (Partnership), nr. 71023/18.09.2007, Coordinator: Technical University Cluj-Napoca, University of Craiova responsible: D. Popescu, 09/2007 – 09/2010.
- ♦ ***Study and implementation of a technological solution for the improvement of energetic efficiency, safety and security in electric urban transport*** – Contract CNCSIS 71-145/14.09.2007 (PN II, Partnership), Coordinator: University of Craiova, Director: P.-M. Nicolae, 09/2007 – 09/2010.

- ♦ **Mini plant for producing renewable energy – application for microunits and residential ansambles** – Contract CNC SIS 21-035/14.09.2007, (PN II, Partnership), University of Craiova responsible: P.-M. Nicolae, 09/2007 – 09/2010.
- ♦ **Multimedia platform for learning, research and applications for Mechatronics and Automation** – Contract CNC SIS, OMEdC 4873/08.08/2006 Director: M. Ivănescu, 2006-2008.
- ♦ **Research promoting in automation and robotics aiming to integration within european and international research networks - PARSIR**, Contract CNC SIS CEEX 2006 – 2007, Director: D. Popescu, 2006 – 2007.
- ♦ **Disipative systems. Analysis and synthesis** – Grant CNC SIS 279, Director: V. Răsvan, 2004-2006.
- ♦ **Advanced methods on nonlinear control of biotechnological processes for environment depollution**, Grant CNC SIS No. 317/2004 (financed by National Council of Scientific Research of the High School - CNC SIS), Director: E. Petre, 2004-2005.
- ♦ **Non-standard dynamics in time-delayed systems - studies and simulated experiments**, Grant CNC SIS No. 318/2004, Director: D. Popescu, 2004-2005.
- ♦ **Dynamics and Control of the Systems with Time Delay and Propagation**, Grant CNC SIS No.35254/2001, Director: V. Răsvan, 2001-2003.
- ♦ **Studies on Control and Digital Signal Processing**, Grant No.54D/2000 financed by World Bank, Director: V. Răsvan, 2000 – 2002.

#### **AFFILIATION TO PROFESSIONAL AND SCIENTIFIC SOCIETIES**

- **IEEE Senior Member** (*Institute of Electrical and Electronics Engineers: CSS – Control Systems Society, CIS – Computational Intelligence Society*); Senior Member since 2013, Member since 2006;
- **IFAC** (*International Federation on Automatic Control*)
- **SIAM** (*Society for Industry and Applied Mathematics: Activity Group on Dynamical Systems*), member since 2008;
- **SRAIT** (*Romanian Society for Automation and Technical Informatics*, the Romanian NMO of IFAC), member since 2000; **Chair of the SRAIT local division Craiova**, since 2012;
- **SRR** (*Romanian Society for Robotics*), member since 2000;
- **AGIR** (*General Association of Romanian Engineers*), member 2014-2021;
- **ANSI** (*Research Laboratory Nonlinear Automation and Intelligent Systems*), founding member.

#### **AWARDS, PRIZES, HONORS**

- **CNCS (National Research Council) / UEFISCDI (Executive Agency for Higher Education, Research, Development & Innovation Funding)** research results prize for SCI-indexed journal paper, (codes: PN-II-RU-PRECISI-2011-3-1240, 2013; PN-III-P1-1.1-PRECISI-2019-



32349, 2019; PN-III-P1-1.1-PRECISI-2020-44813, 2020).

- **IEEE Region 8 (Europe, Middle East and Africa) „Clementina Saduwa” 2017 award** for “outstanding personal and career achievements and noteworthy support and inspiration to women in the profession”, IEEE R8 competition, awarded during the 108<sup>th</sup> IEEE Region 8 Committee meeting, Stockholm, Sweden, March 2017.
  - IEEE Region 8 Clementina Saduwa Award Recipients  
<https://ieeer8.org/category/member-activities/women-in-engineering/awards-women-in-engineering/recipients/clementina-saduwa-award-recipients/>
  - „Daniela Danciu earns Saduwa distinction”, IEEE Region 8 News, Vol. 20, No. 1, September 2017, pp. 4. Available online: [http://ieeer8.org/wp-content/uploads/2017/10/r8news\\_2017\\_09.pdf](http://ieeer8.org/wp-content/uploads/2017/10/r8news_2017_09.pdf)
- **Honour Diploma awarded by the University of Craiova** for outstanding research results in 2015, Competition *Research Excellence at University of Craiova*, awarded during the Research Excellence Gala, second edition, Craiova, April 2017.
- **Senior Member IEEE** (2013).

#### INVITED RESEARCH STAYS, SPECIALIZATIONS

- **Laboratoire des Signaux et Systèmes – Unité mixte de recherche, Centrale-Supélec, CNRS et Université Paris-Sud, Paris, France, November 2018.** Collaboration partner: Prof. Dr. Mat. Islam Boussaada (IPSA), Research subject: *Systems with Propagation – New Approaches in Control Design for Oscillations Quenching*. Financed by MCI, CCCDI-UEFISCDI, Contract 78BM/2017, Director: Daniela Danciu
- **Laboratoire des Signaux et Systèmes – Unité mixte de recherche, Centrale-Supélec, CNRS et Université Paris-Sud, Paris, France, June 2017.** Collaboration partner: Assoc. Prof. Dr. Mat. Islam Boussaada (IPSA), Research subject: *Systems with Propagation – New Approaches in Control Design for Oscillations Quenching*. Financed by MCI, CCCDI-UEFISCDI, Contract 78BM/2017, Director: Daniela Danciu
- **CITEC-Bielefeld University, Bielefeld, Germany, June 2016 - Invited researcher** within the research group “*Cognitronics & Sensor Systems*”, Scientific Coordinator: U. Rückert
- **Rhine-Waal University of Applied Sciences, Kleve, Germany, May 2016 - External expert** for the research project “*EEG-based Brain-Computer Interfaces for Healthcare Applications - EBCI*”, Director I. Volosyak
- **University of Málaga, Polytechnic School, Department of Applied Mathematics, Spain, November 2014.** Collaboration partner: Prof. Miguel Atencia, Research subject: *Distributed parameter systems: analysis, synthesis via control Lyapunov functionals, numerical approximation and neurocomputing type implementation*. Financed by University of Craiova, Research grant, Contract 10C/2014, Director: Daniela Danciu
- **École Supérieure d’Ingénieurs en Electronique et Electrotechnique, Noisy-le-Grand, France, February 2002 – Doctoral research stage.** Financed by World Bank, Research grant CNCISIS type D, no. 58, Contract 54D/2000, Director: V. Răsvan
- **Institute of Information Technology, School of Technology “Tomas Bata” University of**

Zlin, Czech Republic, November 2001 – Doctoral research stage. Financed by World Bank, Research grant CNC SIS type D, no. 58, Contract 54D/2000, Director: V. Rășvan

## TECHNICAL ACTIVITIES IN PROFESSIONAL ENVIRONMENT

### MANAGERIAL EXPERIENCE IN MANAGEMENT POSITIONS OR STRUCTURES

- *Vice-Chair of the IEEE Control Systems Society, Romania Chapter (from 2021)*
- *President of SRAIT Craiova Branch (since 2012); SRAIT - Romanian Society of Automation and Technical Informatics, IFAC-National Member Organization (NMO)*
- *Member of the Extended Steering Committee of SRAIT (since 2012)*
- *Member of the Council of the Doctoral School "Constantin Belea", IOSUD University of Craiova (since 2020);*
- *Responsible for the Master's degree in Systems Engineering, University of Craiova (2018-2023);*
- *Member of the Image and International Relations Commission, Faculty of Automation, Computers and Electronics, University of Craiova (since 2012)*

### GUEST/ASSOCIATED EDITOR FOR ISI JOURNALS

- *Mathematics*, special issue "New Trends in Numerics and Dynamics of Artificial Neural Networks: Theory and Applications", section "Network Science", 2023, ISSN 2227-7390 [ISI Q1, IF\_2022: 2.4]
- *IFAC-PapersOnline*, vol. 52, issue 17, (122 pages), ISSN 2405-8963, ELSEVIER, 2019, <https://www.sciencedirect.com/journal/ifac-papersonline/vol/52/issue/17>
- *IFAC-PapersOnline*, vol. 52, issue 18, (178 pages), ISSN 2405-8963, ELSEVIER, 2019, <https://www.sciencedirect.com/journal/ifac-papersonline/vol/52/issue/18>

### MEMBER IN EDITORIAL BOARDS

- *Annals of the University of Craiova, Series: Electrical Engineering*, since 2016 [indexed IDB]

### MEMBER OF INTERNATIONAL TECHNICAL COMMITTEES

- *IFAC Technical Committee 2.2 – Linear Control Systems* (since 2020)
- *IFAC Technical Committee 2.6 – Distributed Parameter Systems* (since 2015)
- *IFAC Technical Committee 9.5 – Technology, Culture and International Stability* (since 2018).

### MEMBER OF NATIONAL COMMITTEES FOR EVALUATION OF SCIENTIFIC RESEARCH

- Expert evaluator for CNC SIS (National Council of Scientific Research of the High School) for the national research competitions (since 2010): PN II (2010), PN-III-P2-2.1-PED-2021 (evaluation in 2022).

### PROGRAM EDITOR AT PRESTIGIOUS INTERNATIONAL CONFERENCES (NOC)

- *IFAC 7th Symposium on System Structure and Control SSSC*, 2019, Sinaia, Romania.
- *IFAC 15th Workshop on Time Delay Systems TDS*, 2019, Sinaia, Romania.

**INVITED REVIEWER FOR ISI JOURNALS [Q1, Q2], INTERNATIONAL CONFERENCES AND INTERNATIONAL REVIEWING SERVICES**

- *Applied Mathematical Modelling* [ISI Q1]
- *IEEE Transactions on Neural Networks and Learning Systems* [ISI Q1]
- *Neurocomputing* [ISI Q1]
- *Applied Soft Computing* [ISI Q1]
- *International Journal on Robust and Nonlinear Control* [ISI Q1]
- *IET Control Theory & Applications* [ISI Q2]
- *Soft Computing* [ISI Q2]
- *IMA Journal of Mathematical Control and Information* [ISI Q2]
- *Journal of Mechanics in Medicine and Biology* [ISI Q4]
- *Kybernetika* [ISI Q4]
- *Kragujevac Journal of Mathematics* [Scimago Q3]
- *Annals of University of Craiova, Series Electrical Engineering* [BDI]
- *Zentralblatt für Mathematik*, reviewing service, international database
- *Mathematical Reviews (MathSciNet)*, reviewing service, international database of American Mathematical Society (AMS)
- *IEEE CDC Conference on Decision and Control* (2024, Italy);
- *IFAC World Congress* (2017, France; 2023 Japan)
- *IFAC Mathematical Theory of Networks and Systems MTNS* (2020, United Kingdom)
- *IFAC Time-Delay Systems TDS* (2007, 2016, 2018, 2019, 2021, 2022, 2024);
- *IEEE International Conference on Control, Decision and Information Technologies CODIT* (2019, 2020, 2022, 2023, 2024)
- *IEEE International Conference on System Theory, Control and Computing ICSTCC* (2011, 2012, 2013, 2014, 2016, 2017, 2018, 2019, 2020, 2021, 2022), Sinaia, Romania;
- *International Work-Conference on Artificial Neural Networks IWANN* (2011, 2013, 2015, 2017, 2019, 2021, 2023), Spain;
- *IFAC Symposium on Nonlinear Control Systems NOLCOS* (2019)
- *IEEE International Carpathian Control Conference ICC* (2015, 2017, 2019, 2020, 2022, 2023),
- *IEEE International Conference on Applied and Theoretical Electricity ICATE* (2012, 2014, 2016, 2018), Craiova, Romania;
- *IEEE E-Health and Bioengineering EHB* (2013, 2015, 2017, 2019, 2020, 2021, 2022, 2023) Romania;
- *International Conference on Control Systems and Computer Science CSCS* (2019, 2021, 2023)
- *IFAC Workshop on Control of Complex Systems COSY* (2022, Italy,; 2024, France)
- *European Control Conference ECC* (2013, Switzerland; 2023, Romania)
- *International Symposium on Intelligent Distributed Computing IDC* (2016, France);
- *International Symposium on INnovations in Intelligent SysTems and Applications INISTA* (2016, Romania).
- *IEEE International Symposium on Applied Computational Intelligence and Informatics SACI* (2007, 2009, 2011, 2013, 2015, 2016), Timisoara, Romania;
- *IEEE AFRICON* (2009, Nairobi, Kenya);

- *IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics ICC-CONTI* 2010, Timisoara, Romania;
- *International Conference on System Theory and Control ICSTC* (2010, Romania);
- *DElays and COstraints in Distributed parameter systems DECOD* (2019, 2020, 2021, France)

#### **MEMBER OF PROGRAM COMMITTEES**

- *IEEE International Carpathian Control Conference ICC-C*, (2015, Hungary; 2016 Slovak Republic; 2017, Romania; 2019 Poland; 2020 Slovakia; 2021, Czech Republic; 2022, Romania; 2023)
- *IFAC Workshop on Control of Complex Systems COSY* (2022, Italy; 2024 France)
- *IEEE-IFAC International Conference on Control, Automation and Diagnosis ICCAD* (2023, Italy; 2024, France)
- *IEEE International Conference on Control, Decision and Information Technologies CODIT* (2019, 2020, 2022, 2023, 2024)
- *International Work-Conference on Artificial Neural Networks IWANN*, (2011, 2013, 2015, 2017, 2019, 2021, 2023), Spain
- *International Conference on Control Systems and Computer Science CSCS* (2019, 2021, 2023), Romania
- *IFAC Symposium on Systems Structure and Control SSSC* (2022, Canada)
- *IEEE International Symposium on Applied Computational Intelligence and Informatics SACI*, (2009, 2011, 2013, 2014, 2015, 2018), Timisoara, Romania
- *IEEE E-Health and Bioengineering EHB*, (2013, 2015, 2017, 2019, 2020, 2021, 2022, 2023), Romania
- *IEEE International Conference on Applied and Theoretical Electricity ICATE* (2012, 2014, 2016, 2018, 2021), Craiova, Romania
- *IEEE International Conference on System Theory, Control and Computing Joint Conference ICSTCC* (2011, 2013, 2014, 2016, 2020, 2021, 2022), Romania
- *IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics (ICC-CONTI)* 2010, Romania
- *International Symposium on Intelligent Distributed Computing IDC* 2016, Paris
- *International Symposium on INnovations in Intelligent SysTems and Applications INISTA* 2016, Romania

#### **MEMBER IN ORGANIZING COMMITTEES AT INTERNATIONAL SCIENTIFIC CONFERENCES**

- *IFAC 7th Symposium on System Structure and Control SSSC*, 2019, Romania
- *IFAC 15th Workshop on Time Delay Systems TDS*, 2019, Romania
- *IEEE International Conference on System Theory, Control and Computing ICSTCC* (2016, 2020), Romania
- *International Conference on System Theory and Control* (Joint conference of SINTES14, SACC10, SIMSIS14), Romania, 2010
- *8th IFAC Workshop on Time Delay Systems*, Romania, 2009.

#### **ORGANIZER OF INVITED SESSIONS AT INTERNATIONAL SCIENTIFIC CONFERENCES**

- *21th IEEE International Conference on System Theory, Control and Computing ICSTCC*,



October 2017, Sinaia, Romania, invited session **PROPAGATION – DELAYS - CONTROL**

- 20th IEEE International Conference on Systems Theory, Control and Computing ICSTCC, 2016, Sinaia, Romania, the invited session **Structures, Algorithms, Methods and Applications in Artificial**
- 17th International Work-conference on Artificial Neural Networks IWANN, June 2015, Palma de Mallorca, Spain, the invited session **Structures, algorithms and methods in Artificial Intelligence**
- 18th International Conference on Systems Theory, Control and Computing ICSTCC, October 2014, Sinaia, Romania, the invited session **Biological and bio-inspired dynamical systems for computational intelligence**
- 16th International Work Conference on Artificial Neural Networks IWANN, June 2013, Tenerife, Spain, the invited session **Biological and Bio-Inspired Dynamical Systems for Computational Intelligence**
- 15th International Work Conference on Artificial Neural Networks IWANN, June 2011, Torremolinos, Spain, the invited session **Biological and Bio-Inspired Dynamical Systems**

#### **(CO)CHAIR FOR INVITED, REGULAR OR PLENARY SESSIONS AT INTERNATIONAL SCIENTIFIC CONFERENCES**

- 27th IEEE International Conference on System Theory, Control and Computing ICSTCC, October 2023, Timișoara, Romania, the regular session **Linear Systems**
- 26th IEEE International Conference on System Theory, Control and Computing ICSTCC, October 2022, Sinaia, Romania, the regular session **Intelligent Systems.**
- 24th IEEE International Conference on System Theory, Control and Computing ICSTCC, October 2020, Sinaia, Romania, the plenary session **"Cognitronics: Resource-efficient Architectures for Cognitive Systems"**, plenary speaker Ulrich RUECKERT (Germany).
- 22th IEEE International Conference on System Theory, Control and Computing ICSTCC, October 2018, Sinaia, Romania, the regular session **Oscillatory Phenomena in Engineering and Embedded Systems.**
- 20th IFAC World Congress, July 2017, Toulouse France, the invited session **Frequency Domain Techniques for Time-Delay Systems: Methods and Computational Issues**
- 21th IEEE International Conference on System Theory, Control and Computing ICSTCC, October 2017, Sinaia, Romania, for the invited session **PROPAGATION – DELAYS - CONTROL**
- 20th IEEE International Conference on Systems Theory, Control and Computing ICSTCC, 2016, Sinaia, Romania, the plenary session **Neuronal Behaviors: A Control Perspective**, plenary speaker Rodolphe SEPULCHRE (UK)
- 20th IEEE International Conference on Systems Theory, Control and Computing ICSTCC, 2016, Sinaia, Romania, the invited session **Structures, Algorithms, Methods and Applications in Artificial**
- 17th International Work-conference on Artificial Neural Networks IWANN, June 2015,

Palma de Mallorca, Spain, the invited session *Structures, algorithms and methods in Artificial Intelligence*

- *18th International Conference on Systems Theory, Control and Computing ICSTCC*, October 2014, Sinaia, Romania, the invited session *Biological and bio-inspired dynamical systems for computational intelligence*
- *16th International Work Conference on Artificial Neural Networks IWANN*, June 2013, Tenerife, Spain, the invited session *Biological and Bio-Inspired Dynamical Systems for Computational Intelligence*
- *15th International Work Conference on Artificial Neural Networks IWANN*, June 2011, Torremolinos, Spain, the invited session *Biological and Bio-Inspired Dynamical Systems*
- *13th International Work-conference on Artificial Neural Networks IWANN*, 2007, San Sebastian, Spain, the regular session *Mathematics for Neural Networks*

## TECHNICAL ACTIVITIES IN ACADEMIC ENVIRONMENT

### MEMBER OF NATIONAL COMMITTEES FOR EVALUATION OF EDUCATION PROGRAMS

- Expert evaluator for *ARACIS* (Romanian Agency for Quality Assurance in Higher Education), *Systems Engineering* field, since 2011.

### STUDENT MENTORING

- *Member of the advisory / defense commissions for PhD theses*
  - ♦ *Member of defense commission*: PhD candidate: Iorga Ionel Cristinel, University of Craiova, Thesis title: "PIO Criteria -- Technics of robust stability, influences of the dynamics of human operator ", 2013
  - ♦ *Member of preliminary advisory commission*: PhD candidate: Șoimu Andreea Valentina, University of Craiova, Thesis title: "Applications of the predictive control", 2016
  - ♦ *Member of the commission for research reports*: PhD. students: Călugaru George, Șoimu Andreea, Iorga Ionel, State Claudia, Toader Adrian, University of Craiova, 2010 – 2018.
- *Advisor for over 120 successfully defended BSc and MSc theses*

### TEACHING STAGES IN ABOARD UNIVERSITIES

- **University of Málaga, Polytechnic School, Department of Applied Mathematics, Spain**, 24-25.11.2014, ERASMUS+ Program for teaching assignments. Teaching/laboratory activities: 8 hours; Lecture title: *Neural networks – a dynamical systems point of view*.
- **Polytechnic Institute of Cávado and Ave, Barcelos, Portugal**, 18-20.02.2013, ERASMUS+ Program for teaching mobility. Teaching/laboratory activities: 7 hours; Lecture title: *Neural networks*.
- **Université de Technologie de Compiègne, Centre National de la Recherche Scientifique (CNRS) – Lab. Heudiasyc, Departm. Génie Informatique, Compiègne, France**, 05.06 –

12.06.2005, Program ERASMUS-SOCRATES. Teaching activities: 8 hours; Seminar title (researchers and PhD students) „*Stability of neural networks with time delays – novel results*”, General lecture title (students, PhD students and researchers) „*Nonlinear phenomena and applications in artificial Intelligence (emergent calculus and neural networks)*”

#### MEMBER IN DIFFERENT COMMITTEES FOR ACADEMIC GRADE EVALUATIONS

### TEACHING EXPERIENCE

#### COURSES

- Nonlinear bio-dynamics. Applications to Artificial Intelligence (graduate, 2010 – 2013)
- Advanced techniques for digital signal processing (graduate, 2013 – present)
- Systems theory 1 (undergraduate, 2020 – present, in Romanian)
- System theory (undergraduate, 2020 – present, in English)
- Systems theory and automatic control (undergraduate, 2008 – present)
- Digital signal processing (undergraduate, 2007 – 2008)
- Control systems theory (undergraduate, 2005 – 2006)
- Software for multimedia systems (undergraduate, 2007 – present)
- Design, aesthetics and semiotics in audio-video (undergraduate, 2008 – present)
- Computer aided learning (e-learning) (undergraduate, 2004 – 2013)

#### Labs / projects / seminars

- Nonlinear bio-dynamics. Applications to Artificial Intelligence (graduate, 2010 – 2013), Nonlinear oscillations (graduate, 2007 – 2009), Foundations of nonlinear automation (graduate, 2009 – 2015), Advanced techniques for digital signal processing (graduate, 2013 – present), Systems theory and automatic control (undergraduate, 2008 – present), Systems theory (undergraduate, 2000 – present), Signals and systems (undergraduate, 2005 – present), Digital signal processing (undergraduate, 2007 – 2008), Control systems theory (undergraduate, 2005 – 2018; renamed Systems theory 2), Signals, circuits and systems (undergraduate, 2000 – 2005), Software for multimedia systems (undergraduate, 2007 – present), Design, aesthetics and semiotics in audio-video (undergraduate, 2008 – present), Computer aided learning (e-learning) (undergraduate, 2004 – 2013).

### VOLUNTEER ACTIVITY

- *Chair of the Craiova local division for SRAIT* (Romanian Society of Automation and Information Technology; the Romanian NMO of IFAC, since 2012.
- *Secretary and treasurer of the Craiova local division for SRAIT* (Romanian Society of Automation and Information Technology), 2004-2011.

01.05.2024

Prof. Dr. Habil. Eng. Daniela Danciu