

PERSONAL INFORMATION

**Sorin-Aurel Moraru**



✉ smoraru@unitbv.ro

POSITION  
PhD COORDINATOR  
IOSUD UTBV

PhD coordinator in the doctoral studies domain: **Computers and Information Technology**  
Since: 2009 / October

Expertise fields and research interest topics within the coordinated PhD domain

- Intelligent systems for Ambient Assisted Living, using wireless sensor networks
- Processes parameters monitoring systems
- Artificial Intelligence; smart communities
- Services Science, Management and Engineering in cloud; Big-data analytics

Number of PhD students (currently studying for their PhD): 6

Number of defended PhD theses (to be confirmed): 6

Number of approved PhD titles 6

WORK EXPERIENCE

1991-present

Director of the Department of Automatics and Information Technology

ICT&Electric Responsible of R&D Institute of Transilvania University

Director of the Department of Automation, Electronics and Computers

Dean, Faculty of Electrical Engineering & Computer Science

Vice-dean, Faculty of Electrical Engineering & Computer Science

Chancellor, Faculty of Electrical Engineering & Computer Science

Chancellor, UNESCO Chair AIPQ - Automatics, Intelligent Production & Quality

Associate Professor (Conferentiar univ.): since 1999

Member of the Faculty Academic Council

Member of the Faculty Executive Board (composed of Dean, Vice-dean, and Chancellor)

Co-ordinator, Research Team for Integrated Software Systems, "OPTIM"

Research Center

Chief, ProfUse Laboratory for Information Technology

Chief, Integrated Software Systems Laboratory

Assistant Professor: 1991 – 1995

Senior Lecturer, 1995-1999

Associate Professor, 1999-2008

Professor, 2008-present

Doctoral Studies Advisor (PhD Coordinator) in Computers and IT

"Transilvania" University of Brasov, Faculty of Electrical Engineering & Computer Science,  
Department of Automatics and Information Technology, Mihai Viteazu Str. Nr. 5

- Education and Research in Automatics and Computer Science
- Teaching courses:
  - Reliability and diagnosis
  - Databases
  - Project Management – master courses for UNESCO Chair's specialisations: Information and Communication Systems and Technologies, Quality Engineering and Management, Quality Management for Energetic Systems
  - Integrated Software Systems
  - Software Engineering (In English)
  - Data Structures, Algorithms and Programming Techniques
  - Computer Programming (C)

Business or sector Education and Research

2000-2001

Member of the support group for setting up of PSE-Siemens Romania at Brasov;  
Team Leader

Siemens PSE Romania, Colina Universitatii Nr. 1

- Supporting the setting-up organising
- Participation in organising the location
- Organising the team

Business or sector Programming and System Engineering

1995-1999

Counsellor on Quality, Reliability & Customer Satisfaction

Estico Srl Brasov & Rank Xerox Romania, Piata Teatrului nr. 2

- 1997 3rd on Dealer's Annual Classification, Quality, Rank Xerox România
- 1998 1st - 2nd on Dealer's Annual Classification, Quality, Rank Xerox România

Business or sector Office equipments and printing solutions

1989-1991

Scientific Researcher, 3rd degree  
Designing Engineer

Research Institute for Automation - Bucharest, Branch of Brasov, 5, Str. Mihai Viteazu Nr. 5

- 7 research and deployment contracts

Business or sector Research, Deployment and Production

1986-1989

Engineer

"Electroprecizia" Company of Sacele, Str. Parcului Nr. 1

- Quality assurance
- Designing of electronic measurement tools
- 1 brevet of innovation 1998

Business or sector Production of electrical equipment

## EDUCATION AND TRAINING

graduation 1999

Doctor Eng. (PhD)

"Transilvania" University of Brasov, Doctoral studies

- Technical Domain, Engineering Sciences, Reliability specialisation

1981-1989

Dipl. Engineer

*1st on the National Graduation List - year 1986, more than 700 graduates in Electrical Engineering, final average: 9.98 from 10*

"Transilvania" University of Brasov, Electrical Engineering specialisation



- System Theory, Electronic Devices and Circuits, Electromagnetism, Computer Programming, Electrical Drives and Control, Automatic Systems, Statistics and Reliability

## PERSONAL SKILLS

Mother tongue(s) : ROMANIAN

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C2	C2	C1
Replace with name of language certificate. Enter level if known.					
French	B1	B1	B2	B1	B2
Replace with name of language certificate. Enter level if known.					
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user					
Common European Framework of Reference for Languages					

Communication skills Very good abilities in communication with the colleagues, students, collaborators, customers.

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During my positions expressed above I have achieved an experience in working with different people and situations in which I had to assure the optimal results as well as managing the obstacles and conflict which are inherent to large collectives.

Also, the participation to international events (like symposium, conference, meeting, stage) and the international projects were I am/was involved, I have achieved an experience in working with different cultures and people, overpassing the language and mentality challenges.

## Organisational / managerial skills

- I was / am a member or Co-Chairman in/of the Organising Committee of:
- 6th Conference on Speech Technology and Human-Computer Dialogue (SpeD), IEEE Conference, 18-21 May 2011 – co-chairman
  - International Conference on Optimization of Electrical and Electronic Equipment OPTIM2008, 2010, 2012, Brasov – co-chairman
  - ELECTRONICS ET' 2000, 2001, 2002, 2003, 2004, 2005, 2006, International Scientific and Applied Science Conference, Technical University of Sofia and Delft University of Technology – Netherlands, Sozopol, Bulgaria;
  - 1st International Workshop on e-Learning and Virtual and Remote Laboratories VIRTUAL-LAB 2004, within 1st International Conference on Informatics and Control, Automation and Robotics, ICINCO, 2004, Setubal, Portugal.
  - 2nd International Workshop on e-Learning and Virtual and Remote Laboratories, February 14-15, 2008, Hatto-Plattner Institute Potsdam, Germania.
  - PETRAE 2008, 1st International Conference on Pervasive Technologies Related to Assistive Environments, Workshop on Pervasive Technologies on e/m-Learning and Internet-based Experiments, July 15-19, 2008, Athens, National Technical University of Athens & University of Texas at Arlington, College of Engineering, USA.
  - Due to the held positions, detailed above, I led / lead different teams of people and individuals in different areas: project management, quality assurance, human resources management (recruiting, team building), financial and budget related activities, customer relationship, company organizational management.

Technical skills Important/big projects management

- Technical knowledge & skills
- software tools: C and Pascal, SQL, databases, Java language and technologies e.s.o.
  - knowledge of workstation, servers, printers and copy-printers, LAN administration
  - knowledge of TCP-IP protocols, security
  - programming knowledge of JavaScript, HTML and XML
  - H/S systems designing (e.g. inovation: Computer Assisted Data Aquisition, Measurement & Testing System)

## ADDITIONAL INFORMATION

Publications	11 books, 95 scientific papers (85 indexed in the ISI WoS, IEEE Xplore, Scopus databases)
Presentations	more than 100
Projects	29 scientific contracts (director (18) and/or member in technical team)
Conferences	40 intl., 10 nat.
Seminars	25
Awards	6
Citations	120
Memberships	3
Certifications	10

## ANNEXES

List of relevant research articles/publications (from the last 5 years) in relation with the coordinated PhD topics

- Moraru, S.A., Perniu, L., Kristaly, D.M., Ungureanu, D., Sandu, F., Mosoi, A.A., Integrating Wireless Sensors into Cloud Systems for Ambient Assisted Living (I), 25th Mediterranean Conference on Control and Automation, IEEE, July 3-6, 2017, Valletta, Malta
- Cristoiu, C., Moraru, S.A., Kristaly, D.M., Ungureanu, D., Moraru, I., Home-based System for Elderly Assisted Living, 2017 International Conference on Research and Innovation in Computer Engineering and Computer Science (RICCES) 2017. Accepted paper, 15 – 17 August 2017 | Langkawi Island, Kedah, Malaysia, Journal of Telecommunication, Electronic and Computer Engineering (JTEC), ISSN 2180-1843, e-ISSN 2289-8131, SCOPUS Q4
- Moraru, S.A., Kristaly, D.M., Badea, M., Ghisa, Intelligent Computation in Industrial Measures Management System, V.E., Congress on Information Technology, Computational and Experimental Physics(CITCEP 2015), Polish Academy of Science, Cracovia, 2015
- Neukart, F., Moraru, S.A., On Quantum Computers and Artificial Neural Networks. Journal of Signal Processing Research, 2013.
- Ghisa, V.E., Moraru, S.A., Descriptive Statistics and Cross Correlation of Some Vocal and Acoustic Parameters Involved in Live Broadcastig, Journal of Science and Arts, Year 15, No. 2(31), pp. 191-198, 2015, ISBN 1844-9581, eISSN 2068-3049, Thomson Reuters, Web of science
- Ghisa, V.E., Moraru, S.A., Belc, M., Relevance of joining process between variables of data communication and weighted entropy levels, Journal of Science and Arts JOSA, Year 15, No.3(32),pp. 285-294, 2015, ISBN 1844-9581, eISSN 2068-3049, Thomson Reuters, Web of science
- Neukart, F., Moraru, S.A., et al , Cortical artificial neural networks and their evolution — Consciousness-inspired data mining ,13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Bran, 2012.
- Ghisa, V.E., Moraru, S.A., Kristaly, D.M., Informational synergy features in live broadcasting, Speech Technology and Human-Computer Dialogue (SpeD), 2015 International Conference on , Bucuresti, 14-17 Oct. 2015, INSPEC Accession Number:15650270, IEEE Xplore Digital Library, IEEE Catalog Number CFP 1555H-DVD, ISBN 978-1-4673-7
- Ghisa, V.E., Moraru, S.A., Kristaly, D.M., Linear Regression Processing Applied on Some Vocal Features in Direct Communication Processes, Speech Technology and Human-Computer Dialogue (SpeD), 2015 International Conference on , Bucuresti, 14-17 Oct. 2015, IEEE Conference, Romanian Academy, IEEE Catalog Number CFP 1555H-DVD, ISBN 978-1-4673-7
- Grigorescu, C.M., Moraru, S.A., Grama, C., Monitoring System Extension for Mobile Devices Based on GlassFish and PhoneGap, Conference and Exposition on Electrical and Power Engineering (EPE 2012)
- Szakacs-Simon, P., Moraru, S.A., Neukart, F, Signal Conditioning Techniques for Health Monitoring Devices, conferinta IEEE „TSP 2012, 35th International Conference on Telecommunications and Signal Processing”, Praga
- Caraman, M, Moraru, S., et al, Continuous Disaster Tolerance in the IaaS clouds , 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Bran, 2012.
- Bujdei, C., Moraru, S.A., A low cost framework designed for monitoring applications, based on Wireless Sensor Networks , 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Bran, 2012.
- Neukart, F., Moraru, S.A., et al, Transgenetic NeuroEvolution, 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Bran, 2012.