

## PERSONAL INFORMATION

## Cătălin Daniel Căleanu



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Sex M | Date of birth 30/06/1971 | Nationality Romanian

## POSITION

Prof. dr. habil. eng.,  
Department of Applied Electronics,  
Vice Dean, Faculty of Electronics and Telecommunication, University Politehnica Timișoara

## WORK EXPERIENCE

2014 - present Professor  
2008 - 2014 Associate Professor  
2001 - 2008 Lecturer  
1998 - 2001 Teaching Assistant  
1995 - 1998 Researcher

Department of Applied Electronics, [www.ea.etc.upt.ro](http://www.ea.etc.upt.ro)

Faculty of Electronics and Telecommunication, [www.etc.upt.ro](http://www.etc.upt.ro)

University Politehnica Timișoara, [www.upt.ro](http://www.upt.ro)

▪ Main activities and responsibilities: education, research

Business or sector: academic

## EDUCATION AND TRAINING

1996 - 2001 **Ph. D.**  
"Face recognition using parallel neural processing and interest operator method"  
Electronics and Telecommunications Engineering  
University Politehnica Timișoara

1995 - 1996 **MsEE**  
"Edge perception using fuzzy logic"  
Electronics of intelligent systems  
University Politehnica Timișoara

1995-1996 **BS**  
"Hard&soft interface for fuzzy systems control"  
Applied Electronics  
University Politehnica Timișoara

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B2	B1	B2	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Organisational / managerial skills

Member of the organizing committee for several international scientific conferences e.g. International Symposium on Electronics and Telecommunication ISETC 2008, 2010, 2012, 2014, IEEE Workshop on Human Body Communications and Biomedical Signal Processing 2013, Beijing, China.

Computer skills

- Languages: Assembler, C/C++/C#, MATLAB, Python
- Packages: Keras, Tensorflow, Scikit-learn, OpenCV, Anaconda, Cadence OrCAD, Altium Designer, MPLAB, KEIL uVision, GCC, Microsoft Office
- OS: Windows, Linux

Driving licence

- B

ADDITIONAL INFORMATION

Publications

Over 80 scientific paper, 9 books – see the [annex](#) for the complete list

Projects

Grants, as project director:

- 2016 Investigation of Multi- and Many-Core Architectures for Embedded Systems (MMC), Kathrein-Werke KG, Germany
  - 2015 AICO - ADAS Innovation Challenge Open, Continental Automotive  
*Generic Central Display*, Continental Automotive
  - 2012 *Research on facial expression recognition in complicated environments*, International Research project within the framework of Romania-China Bilateral Research Activities
  - 2009 *Research on facial expression recognition in complicated environments*, International Research project within the framework of Romania-China Bilateral Research Activities  
Granted by The National Authority for Scientific Research (ANCS)
  - 2009 *New Methods in Facial Expression Analysis and Recognition*  
Granted by Ministry of Education, Research and Youth, The National Authority for Scientific Research, CNCSIS-UEFISCSU
  - 2006 *C#.NET Implementation for a Facial Detection and Recognition Neural System*  
Granted by CNCSIS – National Council for Academic Scientific Research
  - 2005 *Artificial Intelligence based System for Facial Detection and Recognition*  
Granted by CNCSIS – National Council for Academic Scientific Research
  - 2004 *Mobile Autonomous Robots Navigation Based on Symbolic Environment Representation*  
Granted by CNCSIS – National Council for Academic Scientific Research
- Artificial Intelligence Based Universal Prediction Kernel*

2003 Granted by Romanian Academy

#### Invited professor

2010 University of Aeronautics and Astronautics, "Beihang", Beijing, China

2006 École Nationale Supérieure des Télécomm. (ENST) de Bretagne, France

2003 Complex Systems Laboratories – University of Evry, France

1999 University of Strathclyde, Glasgow, UK

University of Central Lancashire, Preston, UK

1996

#### Reviewer for ISI/WoS Indexed Journals

1. IEEE Access, USA
2. Sensors, Switzerland
3. Pattern Recognition Letters, Elsevier, The Neatherlands.
4. The Institution of Electronics and Telecommunication Engineers Technical Review, India
5. ETRI Journal, Electronics and Telecommunications Research Institute, South Korea.
6. Digital Signal Processing, USA.

#### Honours and awards

UEFISCSU prizes: „Research Awards for Articles”, PN-II-RU-PREC-ISI, 2007, PN-II-RU-PRECISI-2011-5, 2011, PN-II-RU-ABIL-2015-2-0107, PN-II-RU-PRECISI-2015-9-8959, 2015.

#### Courses

Deep Neural Networks, Artificial Intelligence Elements, Fuzzy Systems, Expert Systems, Electronic Devices and Circuits, Embedded Systems

#### Memberships

IEEE - The Institute of Electrical and Electronics Engineers, Inc., New York, USA  
Computational Intelligence Society

#### ANNEXES

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- [Complete lists of all publications](#)