

Curriculum Vitae
Sergiu Nedevschi, PhD E. E.
Professor of Computer Science
Computer Science Department
Technical University of Cluj-Napoca
Romania



Full Name:

Sergiu S. Nedevschi

Nationality:

Romanian

Job Title:

Professor with Computer Science Department,
Vice Rector of [Technical University of Cluj-Napoca](http://www.utcluj.ro) (TUCN) in charge with Scientific
Research and ICT

Date of Birth:

10 09 1951

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Academic Qualifications:

1975: Graduate of Technical University of Cluj-Napoca, Msc. in Electrical Engineering;
1993: PhD in Electrical Engineering at Technical University of Cluj-Napoca, Romania
(thesis title "Model Based Object Recognition").

Employment:

1975-1983: Senior Research Fellow, Research Institute for Computer Technologies, Cluj-
Napoca branch, (I.T.C.Cluj filiala Cluj-Napoca);
1983-1991: Assistant Professor, Computer Science Department, TUCN;
1991-1994: Senior Assistant Professor, Computer Science Department, TUCN;
1994-1998: Associate Professor, Computer Science Department, TUCN;
1998-: Professor, Computer Science Department, TUCN;
2000-2004: Head of Computer Science Department, TUCN;
2004-2012: Dean of Faculty of Automation and Computer Science, TUCN;
2012-: Vice Rector of TUCN in charge with Scientific Research and ICT

Teaching:

I am currently teaching for English and Romanian classes the following courses:

- Image Processing (3th year)
- Pattern Recognition (4th year)
- Artificial Vision (master)
- Artificial Vision for Autonomous Driving (master)

Educational Projects:

- Network of European Tertiary Level Educators – NETTLE, EU founded Thematic Network project, (2005-2007),
- Network for Web-based Continuous Education in European Studies - CONED, Tempus Project IB_JEP 13467/98, (1998-2001)
- Euro-standards in Information Technology - ESITEC, Tempus S_JEP 12531-97, (1997-2000)

Research areas:

- Image Processing and Pattern Recognition
- Stereovision Based Sensorial Perception
- Object and Pedestrian Detection Tracking and Recognition
- Environment Representation
- Intelligent Vehicles, Driving Assistance Systems, Autonomous Mobile Systems
- Medical Image Processing
- Computer Architecture and Digital Design
- Design with Microprocessors and Digital Signal Processors

Research Activity:

I was involved in 73 research projects, being the coordinator of 58 of them.

Recent Projects:

- PAN-Robots - Plug And Navigate ROBOTS for smart factories, FP7 project (2012 – 2015)
- Co-operative Mobility Services of the Future - CoMoSeF, Celtic Plus project, (2012-2015)
- Cooperative Advanced Driving Assistance System Based on Smart Mobile Platforms and Road Side Units – SmartCoDrive, grant funded by Romanian Ministry of Education and Research, code PN II PCCA 2011 3.2-0742 from 03.07.2012 (2012-2015)
- Multi-scale and multi-modal perception of the 3D dynamic environments by fusion of the dens stereo, dens optical flow and visual odometry data, grant funded by Romanian Ministry of Education and Research, code PN II IDEI 2011 (2012-2015)
- DRIVE C2X, FP7 project (2011-2013)
- [INSEMTIVES - Incentives for Semantics](#), FP7 project (2010 – 2012)
- [LarKC - LarKC: The Large Knowledge Collider](#), FP7 project (2010 – 2011)
- Sensorial Perception and World Model Representation for Driving Assistance Systems - [PERSENS](#), grant funded by Romanian Ministry of Education and Research, CNCSIS, code 1522/2009, (2009-2011)
- Experimental Low Earth Orbit Surveillance Stereoscope – [LEOSCOP](#), grant, founded by Romanian Ministry of Education and Research, CNMP: 82-093 / 2008, (2008-2011)
- Cooperative Intersection Safety ([INTERSAFE-2](#)), nr. 223951, FP7-ICT-2007-2 (2008-2010)

- Stereo System Modular Design – MODULAR, research project funded by Volkswagen AG, Germany, (2008-2009)
- Dense STEREO-Based Object Tracking and CLASSification for Pre-Crash-Applications - STEREOCLASS, research project funded by Volkswagen AG, Germany, (2008)
- Stereo Sensor for City Automatic Cruise Control - STEREOSENS Volkswagen AG, Germany, (2007)
- Dense Stereo-Based Object Tracking and Pedestrian Recognition for Pre-Crash-Applications-STEREOPED, Volkswagen AG Germany, (2007)
- Dense Stereo-Based Object Detection, Tracking and Pedestrian Classification in Traffic environments – [DESPED](#), Volkswagen AG, Germany, (2006-2007)
- Vidavee Analytics System (VAS), Micronets. Inc, SUA, (2006-2007)
- Incorporated informatic system for the assurance of traceability and quality control in food industry - FOOD-TRACE, grant founded by Ministry of Education and Research (2006-2008)
- Dense-Stereo based Object recognition for Automatic Cruise Control in Urban Environments – [DESBOR](#), Volkswagen AG, Germany, (2005-2006)
- Intelligent System for Assisting the Therapeutical Decision at Patients with Prostate Cancer – [INTELPRO](#), grant founded by Romanian Ministry of Education and Research (2005-2008)
- Method and System for Real-time Acquisition of High-resolution 3D Images Based on [Trinocular](#) Stereo-vision, grant founded by Ministry of Education and Research (2004-2006)
- Stereo-Camera Based Object Recognition System for Vehicle Application - [SCABOR](#), Volkswagen AG, Germany, (2001 – 2004)
- Distributed System for Acquisition, Processing and Retrieval of Medical Images in Hospital Environment, Compliant with the DICOM Medical Standard – [DICOM](#), grant founded by Ministry of Education and Research (2001-2003)

Publications:

Books:	18
Chapters in Books:	4
Papers:	289
In proceedings of international conferences	183
In journals	72
In ISI journals	21

Citations:

h-index 10 in ISI Web of Science
h-index 15 in Publish or Perish

Patents:

2 patents

Activity:

- Associate Editor for IEEE Transactions on Intelligent Transportation Systems
- Editor of ACAM Scientific Journal
- Member of Editorial Board of Scientific Bulletin of "Politehnica" University of Timisoara, Romania, Transactions on Automatic Control and Computer Science
- Reviewer: IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Vehicular Technologies, IEEE Transactions on Image Processing, Optics and Lasers in Engineering, Sensors

- External PhD and habilitation evaluator at universities from Romania, France, Sweden, Ireland, Australia, Pakistan
- Invited professor at VTT Tampere and Helsinki Finlanda, SICK Hamburg Germany, Chonnam National University in Gwangju, Korea, University of Limerick, Ireland, Technical University of Braunschweig, Germany.
- Independent evaluator of EU FP7 projects, evaluator of EU COST and CHIST – ERA projects.
- Member of: IEEE Computer Society, IEEE Signal Processing Society, IEEE Intelligent Transportation Society, IEEE Romania section Computers chapter
- IEEE Romania Section Committee Member in charge with Educational Activities
- Evaluator of National Council of Academic Evaluation and Accreditation (CNEAA),
- Evaluator of Romanian Agency for Quality in Higher Education (ARACIS) in the field of Computer Science and Information Technology.
- Member of National Council for Titles, Diplomas and Certificates (CNATDCU)
- Evaluator of National Council for Scientific Research in Higher Education (CNCSIS)
- Evaluator of National Council for Scientific Research (CNCS)
- Conference Chairman, PC member, member in the local organizing committee, session chair of more than 50 international conferences and workshops: IEEE IV Symposium, IEEE ITSC, IEEE ICCP, IEEE INES, CVVT:E2M, ICINCO, CSCS, SINTES, IEEE SACII. IEEE AQTR

Awards and Honours:

- Correspondent member of Romanian Academy of Technical Sciences since July 2012,
- “Best Associate Editor Award of the IEEE Transactions on Intelligent Transportation System” in 2011 given by IEEE Intelligent Transportation Systems Society in 2012,
- “Constantin Budeanu” Romanian Academy Prize in 2009 for papers published in „Stereovision Based Sensorial Perception”,
- “Marius Hanganut” Prize of Technical University of Cluj-Napoca in 2005 for Achievements in Research Activity.

May 2013-05-26

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