

Dr. Eng.

Mihai V. MICEA

Professor

Scientific Secretary of the Department
Coordinator of the DSPLabs

Politehnica University of Timisoara
Faculty of Automation and Computers
Department of Computer and Software Engineering
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BIOGRAPHY

Fields of Interest

- ▶ Signal Acquisition and Conditioning
- ▶ Digital Signal Processing Systems and Applications
- ▶ Embedded and Real-Time Hardware and Software Systems
- ▶ Intelligent Sensor Networks
- ▶ Collaborative Robotic Environments
- ▶ Digital Image and Video Processing
- ▶ Digital Telecommunication Systems
- ▶ Multimedia Systems
- ▶ Computer Aided Engineering of Digital Systems

Education

- 2005, Feb: **PhD Degree (Cum Laude)** in *Computer Science*, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1999 - 2005: **Specialty courses** in *GSM and GPRS Mobile Telecommunication Standards, Alcatel GSM and GPRS Networks, Alcatel GSM and GPRS Equipments*, Alcatel University Timisoara, Romania
- 1995 - 1996: **Master** in *Advanced Computer Engineering*, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 1992 - 1994: **Optional course** in *Pedagogy*, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 1990 - 1995: **BSc. Engineer** in *Computer Systems Engineering*, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 1984 - 1989: **Highschool graduate** in *Mathematics and Physics*, Moise Nicoara Highschool, Arad, Romania

Staff Mobility

- 2009, Sep: **Experience exchange and cooperation**, at *Image and Pervasive Access Lab (IPAL)*, Singapore, 2 weeks.
[Prof. Daniel Racoceanu - Lab co-director; Joo Hwee Lim - Lab co-director].
- 2008, Aug: **Experience exchange and cooperation**, at *Sensing and Modeling Research Lab (SMR) and Video, Image, Vision, Audio Lab (VIVA)*, University of Ottawa, Canada, 2 weeks.
[Prof. Pierre Payeur - Director of the SMART research group; Prof. Voicu Groza - Director of the Bio MIP research group; Prof. Emil Petriu - Director of the SMR Lab and University research chair].
- 2007, Jul: **ALNURI Summer School**, Salzburg Research, Austria, 1 week.
[Prof. Ulrich Hofmann - Project director].
- 2002, Sep: **Microsoft Embedded Crash Course**, University of Cambridge, United Kingdom, 2 weeks.
[Antonio M. Lacuna - Business Development Manager, Microsoft].
- 1998, Jul: **TEMPUS S-JEP 09149-95 Staff Mobility**, at *Image, Video and Multimedia Systems Lab (IVML)*, National Technical University of Athens, Greece, 8 weeks.
[Prof. Nikolaos Ouzounoglou - Program manager; Prof. Stefanos Kollias - Lab director].

Professional Experience

- 2013 - pres: **Professor**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania

- 2006 - 2013: **Associate Professor**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2001 - 2006: **Lecturer**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1998 - 2001: **System Engineer and Network Administrator**, Rectorate, Politehnica University of Timisoara, Romania
- 1996 - 1998: **System Engineer and Network Administrator**, Internet Department, Lasting System SRL., Timisoara, Romania
- 1996 - 2001: **Teaching Assistant**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1995 - 1998: **System Engineer and Network Administrator**, Network Operation Center (NOC), Politehnica University of Timisoara, Romania
- 1994 - 1995: **Programmer and Database Manager**, S.C.A. Company SRL., Timisoara, Romania
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Management Experience

- 2012 - pres: **Elected member of the University Senate**, Politehnica University of Timisoara, Romania
- 2011 - pres: **Deputy Director**, Research Center in Computing and Information Technology (CCCTI), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2010 - pres: **Member of the Steering Committee**, Politehnica Timisoara Foundation, Romania
- 2010 - pres: **Scientific Secretary of the Department**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2009 - pres: **Member of the Master's Committee** for the Computer and Information Technology Domain, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2008 - pres: **Studies Program Manager** for the Master of Information Technology, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2008 - pres: **Member of the Graduation Committee** for the Computer and Information Technology Domain, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2008 - pres: **Member of the Committee of R&D, Contracts, Doctoral Programs and Faculty Image**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2008 - pres: **Member of the Committee of Material and Financial Resources, and Scholarships**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2008 - pres: **Elected member of the Faculty Council**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2005 - pres: **Member of the Technical Evaluation Board** for the Public acquisition procedures at the University and Faculty levels, Politehnica University of Timisoara, Romania
- 2000 - pres: **Elected member of the Department Council**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2000 - pres: **Department Public Image Manager**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2000 - 2009: **Department Website Manager**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1999 - 2006: **Initiator and Executive Director** for the Motorola Company - Politehnica University of Timisoara Partnership Program, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1996 - pres: **Member of the Central Board for Bachelor Entrance Examination**, Politehnica University of Timisoara, Romania
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Scientific Experience

- 1996 - pres: Author or instructor of more than **20 teaching modules**, including Lecture Courses (5), Lab Workshops (3), Seminars (12):
- ▶ *Research Topics* (Lecture Courses), Fall semester, Master of Computer Engineering and Master of Information Technology, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania
 - ▶ *Multimedia Systems* (Lecture Courses), 8th semester, 4th year BSc. in Computing, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania
 - ▶ *Advanced Digital Signal Processing* (Lecture Courses), Fall semester, Master of Computer Engineering and Master of Information Technology, Faculty of Automation and Computing,

Politehnica University of Timisoara, Romania

- ▶ *Digital Telecommunications* (Lecture Courses), 7th semester, 4th year BSc. in Computing, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania
- ▶ *Digital Signal Processing* (Lecture Courses), 5th semester, 3rd year BSc. in Computing, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania

1997 - pres: More than **89 published works**, as single author (22), first author (23) or co-author:

- ▶ 3 Books
- ▶ 7 Book Chapters
- ▶ 7 Course Notebooks
- ▶ 1 Lab Workbooks
- ▶ 1 PhD Theses
- ▶ 3 PhD Reports
- ▶ 26 Journal Papers
- ▶ 37 Conference Papers
- ▶ 4 Application Notes

These works are **cited by more than 62 scientific papers**, published by other authors in the field

2012 - pres: Author or co-author of **2 patents for invention and industrial IP** at international or national level

1995 - pres: Involved in more than **40 research and development grants, contracts and projects** at international and national level, as director (13), partner project or research theme manager (7), or project team member:

- ▶ 3 International R&D Grants
- ▶ 25 National R&D Grants
- ▶ 4 R&D Contracts
- ▶ 7 Partnership Programs
- ▶ 1 Development Projects

Total value executed as project director or manager: **+ 873462.8 EUR**

2010, Jul: **Technical Internship Supervisor**, EU Erasmus Lifelong Learning Programme, DSPLabs, Digital Signal Processing Labs Timisoara, Romania, Computer and Software Engineering Department, Politehnica University of Timisoara

2008 - pres: **Topic / Session Chair and Peer Reviewer**, at national and international scientific conferences, including:

- ▶ 2013, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2013*, IEEE, Timisoara, Romania, Special Session on PhD Student Research in Applied Informatics I
- ▶ 2012, Nov: *IEEE International Symposium on RObotic and Sensors Environments, ROSE 2012*, IEEE, Instrumentation and Measurement Society, Magdeburg, Germany, Session - Intelligent Sensing and New Sensor Technologies
- ▶ 2011, Nov: *International Congress on Computer Applications and Computational Science, CACS 2011*, International Research Alliance for Science and Technology (IRAST), Indonesia, Session 3 - Computer Networks and Communications
- ▶ 2008, Jun: *International Conference of Technical Informatics, CONTI 2008*, Politehnica University of Timisoara, Romania, Section C-3 - Embedded Systems

2008 - pres: **Expert Evaluator**, National Council for Academic Research (CNCSIS-UEFISCSU), Ministry of Education, Research and Innovation, Bucharest, Romania

2005 - 2008: **Member of the Editorial Board**, Annual Report of the Faculty of Automation and Computers, Politehnica University of Timisoara, Romania

2002 - pres: **Member of the Technical Program Committee (TPC) and Peer Reviewer**, at national and international scientific conferences, including:

- ▶ 2013, Oct: *IEEE International Symposium on RObotic and Sensors Environments, ROSE 2013*, IEEE, Instrumentation and Measurement Society, Washington, USA
- ▶ 2013, Jul: *IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications, CIVEMSA 2013*, IEEE, Instrumentation and Measurement Society, Milan, Italy
- ▶ 2012, Jul: *IEEE International Conference on Virtual Environments: Human-Computer Interfaces and Measurement Systems, VECIMS 2012*, IEEE, Instrumentation and Measurement Society, Tianjin, China
- ▶ 2011, Sep: *IEEE International Conference on Virtual Environments: Human-Computer Interfaces and Measurement Systems, VECIMS 2011*, IEEE, Instrumentation and Measurement Society, Ottawa, Canada
- ▶ 2011, Sep: *IEEE International Symposium on RObotic and Sensors Environments, ROSE*

- 2011, IEEE, Instrumentation and Measurement Society, Montreal, Canada
 - ▶ 2011, May: *IEEE International Conference on Robotics and Automation, ICRA 2011*, IEEE, Robotics and Automation Society, Shanghai, China
 - ▶ 2010, Oct: *IEEE International Workshop on RObotic and Sensors Environments, ROSE 2010*, IEEE, Instrumentation and Measurement Society, Phoenix, AZ, USA
 - ▶ 2010, Sep: *IEEE International Conference on Virtual Environments: Human-Computer Interfaces and Measurement Systems, VECIMS 2010*, IEEE, Instrumentation and Measurement Society, Taranto, Italy
 - ▶ 2009, Nov: *IEEE International Workshop on RObotic and Sensors Environments, ROSE 2009*, IEEE, Instrumentation and Measurement Society, Lake Como, Italy
 - ▶ 2009, May: *IEEE International Conference on Virtual Environments: Human-Computer Interfaces and Measurement Systems, VECIMS 2009*, IEEE, Instrumentation and Measurement Society, Hong Kong, China
 - ▶ 2002 - 2010: *International Conference on Development and Application Systems*, Stefan cel Mare University of Suceava, Romania, 6th to 10th Editions (DAS 2002, DAS 2004, DAS 2006, DAS 2008 and DAS 2010)
- 2001 - pres: **Peer Reviewer**, for scientific journals and periodicals, including:
- ▶ 2013 - pres: *Journal of Systems and Software*, Elsevier B. V., Amsterdam, The Netherlands, ISSN 0164-1212
 - ▶ 2009, Dec: *Electronics and Electrical Engineering*, Kaunas University of Technology, Kaunas, Lithuania, ISSN 1392-1215
 - ▶ 2005 - pres: *IEEE Transactions on Instrumentation and Measurement*, IEEE, Instrumentation and Measurement Society, USA, ISSN 0018-9456
 - ▶ 2004 - 2008: *Scientific Bulletin of the UPT: Transactions on Automatic Control and Computer Science*, Politehnica University of Timisoara, Romania, ISSN 1224-600X
 - ▶ 2001 - pres: *Advances in Electrical and Computer Engineering*, Stefan cel Mare University of Suceava, Romania, ISSN 1582-7445
- 1999 - 2006: **Initiator and Executive Director**, Motorola DSP Applications Lab in Timisoara (DALT), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1999 - 2000: **Scientific Adviser**, Panlatin Internet Glossary, Ministry of Public Works and Government Services, Canada, Romanian language section, ISBN 0-662-31313-5
- 1996 - pres: **Member of the Organizing Committee**, at national and international scientific conferences, including:
- ▶ 2013, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2013*, IEEE, Timisoara, Romania
 - ▶ 1996 - 2002: *International Conference of Technical Informatics, CONTI*, Politehnica University of Timisoara, Romania, 2nd to 5th Editions (CONTI 1996, CONTI 1998, CONTI 2000 and CONTI 2002)
- 1995 - pres: **Initiator and Coordinator**, Digital Signal Processing Labs in Timisoara (DSPLabs), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania

Affiliations

- 2002 - pres: **Member**, Institute of Electrical and Electronics Engineers (IEEE), USA
- 2002 - pres: **Professional Member**, Association for Computing Machinery (ACM), USA
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Awards and Recognition

- 2013, May: **Special Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 20th Edition, as adviser of the Timisoara 3 Team
- 2012, May: **Second Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 19th Edition, as adviser of the Timisoara 1 team
- 2012, May: **Special Mention**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 19th Edition, as adviser of the Timisoara 2 team
- 2011 - pres: **Merit Award (5 years)**, Computer and Software Engineering Department, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania, Merit salary increase, granted for 5 years based on competition at the faculty/department level
- 2010, Dec: **Merit Award (1 year)**, Computer and Software Engineering Department, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania, Merit salary increase, granted for 1 year based on competition at the faculty/department level
- 2007, May: **Second Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 14th Edition, as first coach of the team of Timisoara

- 2006, Dec: **Eminent Young Researcher of Timisoara Prize and Medal**, National Authority for Scientific Research (ANCS), Ministry of Education, Research and Innovation, Bucharest, Romania
- 2006, Dec: **Eminent Researcher Prize**, Orizonturi Universitare Association, Timisoara, Romania
- 2006, Apr: **Best Doctoral Thesis of the Year 2004 Prize**, Romanian Academy of Technical Sciences, Timisoara Branch, Romania
- 2005, May: **First Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 12th Edition, as first coach of the team of Timisoara
- 2005, Feb: **Cum Laude Distinction**, Ministry of Education and Research, Bucharest, Romania, Order No. 3184/07.02.2005, title of the PhD. Thesis: "Design and Implementation of Real-Time Systems for Critical Applications of Digital Signal Acquisition and Processing"
- 2002, May: **Second Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 9th Edition, as first coach of the team of Timisoara
- 2000, May: **Second Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 7th Edition, as coach of the team of Timisoara
- 1999, May: **First Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 6th Edition, as coach of the team of Timisoara
- 1998 - 2009: **Merit Salary (annual)**, Computer and Software Engineering Department, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania, Merit salary increase, granted annually based on competition at the faculty/department level
- 1995, Jun: **Special Award of the Jury**, Scientific Student Communication Session, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania, title of the project: "A Client-Server Approach of a Library Database Management in UNIX"
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Other Competencies

- ▶ English language: Fluent (5/5)
 - ▶ French language: Average (3/5)
 - ▶ German language: Low (2/5)
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