Dr. habil. Eng.

Mihai V. MICEA

Professor

Head of Department
Coordinator of the DSPLabs

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BIOGRAPHY

Fields of Interest

▶ Signal Aquisition 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

2015, Feb: **Habilitation Degree (Dr. habil.)** in *Computers and Information Technology*, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
[Order of the Ministry of Education and Scientific Research, Romania, no. 3216/18.02.2015]

2005, Feb: **PhD Degree (Cum Laude)** in *Computer Science*, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
[Order of the Ministry of Education and Research, Romania, no. 3184/07.02.2005]

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

Management Experience

2016 - pres: **Head of Department**, Department of Computer and Information Technology, Politehnica University of Timisoara, Romania

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 - 2015: **Scientific Secretary of the Department**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania

2009 - pres: **Member of the Graduation Board for the Master (MSc.) studies** 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 Board for the Undergraduate (BSc.) studies** 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 - 2016: **Member of the Technical Evaluation Board** for the Public aquisition 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 - 2015: **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 - 2015: **Member of the Central Board for Bachelor Entrance Examination**, Politehnica University of Timisoara, Romania

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 **111 published works**, as single author (24), first author (25) or co-author:
- 3 Books
- 7 Book Chapters
- 8 Course Notebooks
- 1 Lab Workbooks
- 1 Habilitation Theses
- 1 PhD Theses
- 3 PhD Reports
- 33 Journal Papers
- 50 Conference Papers
- 4 Application Notes

These works are **cited by more than 260 scientific papers**, published by other authors in the field

2013 - pres: Author or co-author of **3 patents for invention and industrial IP** at international or national level

1995 - pres: Involved in more than **48 research and development grants, contracts and projects** at international and national level, as director (21), partner project or research theme manager (7), or project team member:
- 3 International R&D Grants
- 26 National R&D Grants
- 11 R&D Contracts
- 7 Partnership Programs
- 1 Development Projects

Total value executed as project director or manager: **+ 1098904 EUR**

2017 - pres: **Member of the International Program Committee (IPC) and Associate Editor**, at national and international scientific conferences, including:
- 2017 - 2018: *IEEE International Conference on System Theory, Control and Computing, ICSTCC*, IEEE, Control Systems Society, Sinaia, Romania, *at 2 Editions*: • ICSTCC 2017; • ICSTCC 2018

2015 - pres: **Qualification of PhD Supervisor**, Computers and Information Technology, Politehnica University of Timisoara, Romania

2014 - pres: **General Chair**, at national and international scientific conferences, including:
- 2014, Oct: *IEEE International Symposium on Robotic and Sensors Environments, ROSE 2014*, IEEE, Instrumentation and Measurement Society, Timisoara, Romania

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**, at national and international scientific conferences, including:
- 2018, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2018*, IEEE, Timisoara, Romania, Plenary Session III
- 2016, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2016*, IEEE, Timisoara, Romania, Plenary Session III
- 2014, Oct: *IEEE International Symposium on RObotic and Sensors Environments, ROSE 2014*, IEEE, Instrumentation and Measurement Society, Timisoara, Romania, Session - *Mobile Robots*
- 2013, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2013*, IEEE, Timisoara, Romania, Special Session - *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:

▸ 2015 - 2018: *IEEE International Conference on Intelligent Computer Communication and Processing, ICCP*, IEEE Romania Section, Cluj-Napoca, Romania, *at 4 Editions*: • ICCP 2015; • ICCP 2016; • ICCP 2017; • ICCP 2018

▸ 2014, Jun: *IEEE International Symposium on Innovations in Intelligent Systems and Applications, INISTA 2014*, IEEE Italy Section, Alberobello, Italy

▸ 2013, Nov: *Annual Conference of the IEEE Industrial Electronics Society, IECON 2013*, IEEE, Industrial Electronics Society, Vienna, Austria

▸ 2013 - 2015: *IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications, CIVEMSA*, IEEE, Instrumentation and Measurement Society, *at 3 Editions*: • CIVEMSA 2013, Milan, Italy; • CIVEMSA 2014, Ottawa, Canada; • CIVEMSA 2015, Shenzhen, China

▸ 2011 - 2013: *IEEE International Conference on Robotics and Automation, ICRA*, IEEE, Robotics and Automation Society, *at 2 Editions*: • ICRA 2011, Shanghai, China; • ICRA 2013, Karlsruhe, Germany

▸ 2009 - 2012: *IEEE International Conference on Virtual Environments: Human-Computer Interfaces and Measurement Systems, VECIMS*, IEEE, Instrumentation and Measurement Society, *at 4 Editions*: • VECIMS 2009, Hong Kong, China; • VECIMS 2010, Taranto, Italy; • VECIMS 2011, Ottawa, Canada; • VECIMS 2012, Tianjin, China

▸ 2009 - 2014: *IEEE International Workshop on RObotic and Sensors Environments, ROSE*, IEEE, Instrumentation and Measurement Society, *at 6 Editions*: • ROSE 2009, Lake Como, Italy; • ROSE 2010, Phoenix, AZ, USA; • ROSE 2011, Montreal, Canada; • ROSE 2012, Magdeburg, Germany; • ROSE 2013, Washington, DC, USA; • ROSE 2014, Timisoara, Romania

▸ 2008, Jun: *International Conference of Technical Informatics, CONTI 2008*, Politehnica University of Timisoara, Romania

▸ 2002 - 2010: *International Conference on Development and Application Systems, DAS*, Stefan cel Mare University of Suceava, Romania, *at 5 Editions*: • DAS 2002; • DAS 2004; • DAS 2006; • DAS 2008; • DAS 2010

2001 - pres: **Peer Reviewer**, for scientific journals and periodicals, including:

▸ 2017 - pres: *Reliability Engineering & System Safety*, Elsevier B. V., Amsterdam, The Netherlands, ISSN 0951-8320

▸ 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: **Chair or member of the Organizing Committee**, at national and international scientific conferences, including:

▸ 2013 - 2018: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI*, IEEE, Timisoara, Romania, *at 5 Editions*: • SACI 2013; • SACI 2014; • SACI 2015; • SACI 2016; • SACI 2018

▸ 1996 - 2002: *International Conference of Technical Informatics, CONTI*, Politehnica University

of Timisoara, Romania, *at 4 Editions*: • CONTI 1996; • CONTI 1998; • CONTI 2000; • CONTI 2002

1995 - pres: **Initiator and Coordinator**, Digital Signal Processing Labs Timisoara (DSPLabs), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania

Affiliations

2018 - pres: **Senior Member**, Institute of Electrical and Electronics Engineers (IEEE), USA

2002 - 2018: **Member**, Institute of Electrical and Electronics Engineers (IEEE), USA

2002 - pres: **Professional Member**, Association for Computing Machinery (ACM), USA

Awards and Recognition

2018, Oct: **Senior Member**, Institute of Electrical and Electronics Engineers (IEEE), USA, "In recognition of professional standing"

2017, Feb: **Outstanding Reviewers of 2016**, IEEE Transactions on Instrumentation and Measurement, IEEE, Instrumentation and Measurement Society, USA, "In appreciation of outstanding service to IEEE Transactions on Instrumentation and Measurement And Recognition as one of Transactions Outstanding Reviewers of 2016"

2015, Dec: **Award for the Habilitation Degree**, UEFISCDI, Ministry of Education and Scientific Research, Bucharest, Romania

2014, May: **Third Prize**, "Hard&Soft" International Computers Contest for Students, Stefan cel Mare University of Suceava, Romania, 21th Edition, as adviser of the Timisoara 2 Team

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 - 2017: **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"

Other Competencies

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