

Dr. habil. Eng.

**Mihai V. MICEA**

Professor

Head of Department

Coordinator of the DSPLabs

Politehnica University of Timisoara  
Faculty of Automation and Computers  
Department of Computer and Information Technology  
DSPLabs: Digital Signal Processing Laboratories

2, Vasile Parvan Blvd. , 300223, Timisoara, Romania  
Tel/Fax: +40 256 403271 /+40 256 403214  
E-mail: mihai.micea<at>cs.upt.ro  
Webpage: <http://dsplabs.cs.upt.ro/~micha>



## 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

- 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**, Computer and Software Engineering Department, 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 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 - 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 **104 published works**, as single author (24), first author (24) or co-author:

- ▶ 3 Books
- ▶ 7 Book Chapters
- ▶ 8 Course Notebooks
- ▶ 1 Lab Workbooks
- ▶ 1 Habilitation Theses
- ▶ 1 PhD Theses
- ▶ 3 PhD Reports
- ▶ 31 Journal Papers
- ▶ 45 Conference Papers
- ▶ 4 Application Notes

These works are **cited by more than 140 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**

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:

- ▶ 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, Sep: *IEEE International Conference on Intelligent Computer Communication and Processing, ICCP 2015*, IEEE Romania Section, Cluj-Napoca, Romania
  - ▶ 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 - 2014: *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*, 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*, 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:
- ▶ 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 - 2014: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI*, IEEE, Timisoara, Romania, at 2 Editions: • SACI 2013; • SACI 2014
  - ▶ 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

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

## Awards and Recognition

- 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)