

Dr. habil. Eng.

Mihai V. MICEA

Professor

Head 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

Public Scientific Profiles

- ▶ Google Scholar Profile [<https://scholar.google.com/citations?user=8DYST74AAAAJ&hl=en&oi=ao>]
- ▶ ORCID Profile [<https://orcid.org/0000-0002-8224-2032>]
- ▶ WoS Profile [<https://www.webofscience.com/wos/author/record/1713455>]
- ▶ Scopus Profile [<https://www.scopus.com/authid/detail.uri?authorId=8640790400>]
- ▶ Brainmap Profile [<https://www.brainmap.ro/mihai-victor-micea>]
- ▶ ResearchGate Profile [<https://www.researchgate.net/profile/Mihai-Micea>]

Fields of Interest

- ▶ Embedded and real-time hardware and software systems
- ▶ Intelligent robotic environments
- ▶ Energy management and optimization
- ▶ Intelligent sensor networks
- ▶ Smart sensing and perception systems
- ▶ Digital signal acquisition and processing
- ▶ Multimedia systems
- ▶ Networks and communications

Citation Report

2024, Dec: **Scientific citations report**, Google Scholar Database:

1192 Total citations

14 **h-index** (the number of h works published by the author, that have each been cited at least h times)

20 **i10-index** (the number of works published by the author, that have each been cited at least 10 times)

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 Equipment*, 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

- 2017, Sep: **Research, experience exchange and cooperation**, at *Biomedical Measurements Research Laboratory (BMRL)*, University of Ottawa, Canada, 2 weeks.
[Prof. Voicu Groza - Director of the Biomedical Measurements and Applications Research Laboratory].
- 2016, Sep: **Research, experience exchange and cooperation**, at *Laboratoire d'Imagerie Biomedicale (LIB)*, Sorbonne University, University Pierre et Marie Curie, Paris, France, 2 weeks.
[Prof. Daniel Racoceanu].
- 2009, Mar: **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**, Department of Computer and Information Technology, 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

- 2020 - pres: **Chair of the Committee for Strategy and Policies**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2020 - pres: **Member of the Committee for Quality Assessment**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2016 - pres: **Director**, Research Center in Computing and Information Technology (CCCTI), Department of Computer and Information Technology, Politehnica University of Timisoara, Romania
- 2016 - pres: **Head of Department**, Department of Computer and Information Technology, Politehnica University of Timisoara, Romania
- 2016 - pres: **Elected President of the Committee for Infrastructure and Material Resources of the University Senate**, Politehnica University of Timisoara, Romania
- 2016 - pres: **Member of the Executive Board of the University Senate**, Politehnica University of Timisoara, Romania
- 2012 - pres: **Elected member of the University Senate**, Politehnica University of Timisoara, Romania
- 2011 - 2016: **Deputy Director**, Research Center in Computing and Information Technology (CCCTI), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2010 - 2016: **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
- 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 Master (MSc.) studies** for the Computer and Information

Technology Domain, Department of Computer and Information Technology, Politehnica University of Timisoara, Romania

- 2008 - pres: **Member of the Graduation Board for the Undergraduate (BSc.) studies** for the Computer and Information Technology Domain, Department of Computer and Information Technology, Politehnica University of Timisoara, Romania
- 2008 - 2020: **Member of the Committee of R&D, Contracts, Doctoral Programs and Faculty Image**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2008 - 2020: **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 acquisition procedures at the university and faculty levels, Politehnica University of Timisoara, Romania
- 2000 - pres: **Elected member of the Department Council**, Department of Computer and Information Technology, Politehnica University of Timisoara, Romania
- 2000 - pres: **Department Public Image Manager**, Department of Computer and Information Technology, Politehnica University of Timisoara, Romania
- 2000 - pres: **Department Website Manager**, Department of Computer and Information Technology, 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 the Undergraduate Studies Admission**, 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 Cloud Computing and Internet of Things, 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 **133 published works**, as single author (24), first author (25) or co-author:
- ▶ 3 Books
 - ▶ 8 Book Chapters
 - ▶ 8 Course Notebooks
 - ▶ 1 Lab Workbooks
 - ▶ 1 Habilitation Theses
 - ▶ 1 PhD Theses
 - ▶ 3 PhD Reports
 - ▶ 45 Journal Papers
 - ▶ 59 Conference Papers
 - ▶ 4 Application Notes
- These works are **cited by more than 1192 scientific papers**, published by other authors in the field (according to Google Scholar)
- 2021 - pres: Scientific supervisor of a total of **5 PhD Theses**, successfully finalized in the field of Computers and Information Technology
- 2013 - pres: Author or co-author of **3 patents for invention and industrial IP**, granted or pending, at international or national level
- 1995 - pres: Involved in more than **50 research and development grants, contracts and projects** at international and national level, as director (21), partner project or research theme manager (8), or project team member:
- ▶ 4 International R&D Grants

- ▶ 27 National R&D Grants
- ▶ 11 R&D Contracts
- ▶ 7 Partnership Programs
- ▶ 1 Development Projects

Total value executed as project director or manager: **+ 1881048 EUR**

- 2022 - 2023: **Guest Editor**, Mathematics, MDPI, Basel, Switzerland, Special Issue - Numerical Methods in Real-Time and Embedded Systems
- 2020 - pres: **Member**, National Council for Validation of University Titles, Diplomas and Certificates (CNATDCU), Ministry of Education, Research and Innovation, Bucharest, Romania, Specialty Board no. 15 - Computers, Information Technology and System Engineering
- 2017 - pres: **Member of the International Program Committee (IPC) and Associate Editor**, at national and international scientific conferences, including:
- ▶ 2017 - 2020: *IEEE International Conference on System Theory, Control and Computing, ICSTCC*, IEEE, Control Systems Society, Sinaia, Romania, at 5 Editions: • ICSTCC 2017; • ICSTCC 2018; • ICSTCC 2020; • ICSTCC 2021; ICSTCC 2022
- 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:
- ▶ 2023, Oct: *IEEE International Conference on System Theory, Control and Computing, ICSTCC 2023*, IEEE, Control Systems Society, Timisoara, Romania, WeC1 Regular Session - Computer Vision
 - ▶ 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 and Rapporteur**, National Council for Academic Research (CNCSIS-UEFISCSU-UEFISCDI), 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:
- ▶ 2022 - pres: *IEEE International Symposium on Smart Electronic Systems, iSES*, IEEE Computer Society, at 1 Edition: • iSES 2022
 - ▶ 2015 - pres: *IEEE International Conference on Intelligent Computer Communication and Processing, ICCP*, IEEE Romania Section, Cluj-Napoca, Romania, at 8 Editions: • ICCP 2015 - ICCP 2022
 - ▶ 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:

► 2020 - pres: *IEEE Transactions on Industrial Informatics*, IEEE, Industrial Electronics Society, USA, ISSN 1551-3203

► 2019 - pres: *International Journal of Energy Research*, Wiley, USA, ISSN 0363-907X

► 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 Advisor**, 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:

► 2023 - pres: *IEEE International Conference on System Theory, Control and Computing, ICSTCC*, IEEE, Control Systems Society, Timisoara, Romania, at 1 Edition: • ICSTCC 2023

► 2013 - pres: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI*, IEEE, Timisoara, Romania, at 10 Editions: • SACI 2013; • SACI 2014; • SACI 2015; • SACI 2016; • SACI 2018; • SACI 2019; • SACI 2020; • SACI 2021; • SACI 2022; • SACI 2023

► 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 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 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 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: Basic (2/5)
- ▶ German language: Basic (2/5)