

PERSONAL DATA

Dr. Szilveszter Kovacs Szilveszter.kovacs@uni-miskolc.hu www.iit.uni-miskolc.hu/~szkovacs

Gender male | Date of birth 17/09/1964 | Citizenship Hungarian

PROFESSIONAL EXPERIENCE

20020- full professor

Department of Information Technology, University of Miskolc, Miskolc-Egyetemváros

▪ lecturer

[Higher education](#)**2005-2020 associate professor**

Department of Information Technology, University of Miskolc, Miskolc-Egyetemváros

▪ lecturer

[Higher education](#)**2009-2010 associate professor**

Department of Automation, University of Miskolc, Miskolc-Egyetemváros

▪ head of department

[Higher education](#)**2009-2010 associate professor**

Technical University of Kosice , Faculty of Electrical Engineering and Informatics , Department of Cybernetics and Artificial Intelligence

▪ instructor

[Higher education](#)**2005-2010 senior research fellow**

Kecskemét College, Faculty of GAMF, Institute of Informatics, Kecskemét

▪ instructor

[Higher education](#)**1998-2005 assistant professor**

Department of Information Technology, University of Miskolc, Miskolc-Egyetemváros

▪ instructor

[Higher education](#)**1989-1998 IT employee**

Computer Center, University of Miskolc, Miskolc-Egyetemváros

- operation, planning, education

Higher education

1988-1989 laboratory assistant

SZKI Design Automation Laboratory (TAL) 3rd Development Department

- programming

Research

STUDIES

1991-1993 MSc in computer engineering

MSc

Budapest University of Technology, Faculty of Informatics and Electrical Engineering, Department of Computer Engineering

- qualification of the computer engineering diploma: excellent

1984-1989 MSc in electrical engineering

MSc

Budapest University of Technology, Faculty of Electrical Engineering, Department of Telecommunications

- electrical engineering diploma qualification: excellent

1996 university doctorate

Dr. univ .

University of Miskolc, Faculty of Mechanical Engineering (1001/96)

1998 doctoral Ph.D . degree

Ph.D.

Engineering Sciences, University of Miskolc (145/98)

2011 habilitation

Dr. habil.

Informatics Sciences, University of Miskolc (131/2011)

PERSONAL SKILLS

Mother tongue Hungarian

Other languages

	TEXT COMPREHENSION		SPEECH		WRITING
	Listening comprehension	Reading	Conversation	Continuous speech	
English	good	good	good	good	good
	intermediate language exam , A 063997/1990				
Russian	basic	basic	basic	basic	basic
	Ph.D. degree required professional language exam , ME IOK 4/1997				
Japan	basic	-	basic	basic	-
	Japanese-Language Proficiency Test, sheet 4, 4D12961 2400375				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2: Advanced user
Common European Framework of Reference for Languages

Communication skills 1989- , teaching in higher education

Organizational/leadership skills

Education:

2009-2010, Head of Department, Department of Automation , University of Miskolc, Miskolc-Egyetemváros

Completed research projects:

OTKA F029904, "Approximate estimation-based fuzzy logic inference methods and their direct control engineering applications", senior researcher, grant: 1250,000 HUF, 1999-2002.

OTKA jury rating of the Final Report: "Excellent"

OTKA K 77809, "Application-oriented Fuzzy rule interpolation methods", leading researcher, grant: 9946 thousand HUF, 2009-2013. OTKA jury rating of the Final Report: "Excellent"

Work-related skills

Higher education activities:

1990-1995: University of Miskolc, Department of Electrical Engineering and Electronics, external lecturer,

1998-2005: University of Miskolc, Department of Information Technology, Assistant Professor,
2005-2010 Kecskemét College, Faculty of Mathematics and Physics, Institute of Informatics, senior research fellow,

2009-2010 Technical University of Kosice , Faculty of Electrical Engineering and Informatics , Department of Cybernetics and Artificial Intelligence , associate professor,

2005-2020 University of Miskolc, Department of Information Technology, associate professor.
2020- University of Miskolc, Department of Information Technology, full professor.

Computer user skills

Certified electrical engineer,
Certified computer engineer

Other skills

1990-1992 Avas Folk Dance Ensemble, Miskolc

Driver's license(s)

▪ Category B

ADDITIONAL INFORMATION

Publications
Presentations
Research/projects
Conferences
Trainings
Awards and honors
Memberships
References

Publications:

MTMT ID: 10002275
Researcher ID: D-9772-2012
Scopus ID: 22034981100
Google Scholar ID: D9SZsjoAAAAJ
ORCID: 0000-0001-7942-7290

In journal: 62, in conference publication: 152.
Overall impact factor: 7.329, number of independent citations: 1048.
h-index from independent references only: 16

Study scholarships:

SIEMENS Oostkamp (Belgium), 1991 (3 months) with TEMPUS support, software development
SIEMENS ZPL1 IP33 Munich (Germany), 1992 (3 months) TEMPUS JEP 0091-92-2 scholarship, expert system development
University of Sheffield (England), 1995 (2 months) TEMPUS JEP 7759 grant, preparation of lecture notes on fuzzy logic control
Universität Dortmund (Germany), 1996 (3 months) TEMPUS JEP 7759, preparation of lecture notes on fuzzy logic control
LAAS-CNRS Toulouse (France), 1997 (3 months) TEMPUS JEP 7759, preparation of lecture notes on fuzzy logic control
Universität Duisburg (Germany), 1997 (3 months) TEMPUS JEP 7759, preparation of lecture notes on fuzzy logic control
Westminster University (London, England), 1998 (1 month) TEMPUS JEP 12495, preparation of lecture notes on advanced computer networking techniques

Research scholarships:

Universität Duisburg (Germany), 1998 (1 month) COPERNICUS Project No. 4383, research on fault diagnosis (fuzzy classification and reconfiguration)
Gifu Prefectural Research Institute of Manufacturing Information Technology (Kakamigahara, Japan), 1999 (1+1 year) 1999.07.21-2001.07.18, supported by the Japanese JET program (JET No : 993700001), research on fuzzy logic systems
Murdoch University (Perth, Australia), 2002, ARC "Constructing A two-month research fellowship supported by the Australian research program "Hierarchical Fuzzy Systems Efficiently".
The three-year Békésy György Postdoctoral Fellowship awarded in 2001.

Scientific and professional public activity:

1993-1994: University of Miskolc Computer Science Committee, member,
1994-1999: National Information Infrastructure Development Program Technical Council, authorized participant,
1996- B. A.Z. County Chamber of Engineers, founding member,
1996-2000: B. A.Z. County Chamber of Engineers, board member,
1998- EURO (The Association of European Operational Research Societies) Working Group on Fuzzy Sets (EUROFUSE), member,
2001- Integrated Intelligent Systems, Japanese-Hungarian Joint Laboratory (IISL), founding member,
2001- Hungarian Fuzzy Society (MFT), member,
2007-2025 Hungarian Fuzzy Society (MFT), Vice President,
2004-2007, 2013-2016 OTKA College of Inanimate Sciences Electronics-Electrotechnical Jury, elected member,
2008- Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII), ISSN: 1343-0130, Fuji Technology Press Ltd., Japan, editorial board member,
2013- Acta Electrotechnica et Informatica, ISSN 1335-8243, Technical University of Košice, Slovak Republic, editorial board member
2009- University of Miskolc, Hatvany József Doctoral School of Informatics, core member.
20015-2025 University of Miskolc, Hatvany József Doctoral School of Informatics, Vice President.
2017- University of Miskolc University Habilitation Committee, member
2025- University of Miskolc, University Informatics Sciences Habilitation Committee, Chairman
2019- Dénes Vadász Miskolc Foundation for IT Professionals, Chairman of the Board of Trustees

2019- University of Miskolc Doctoral Council, alternate member
2021-2025 Selye János University Faculty of Economics and Informatics Scientific Council, member

Professional recognitions:

2001-2004 György Békésy Postdoctoral Fellowship, Donor: Ministry of Education
2013 Rector's Award: Outstanding Researcher of the University of Miskolc, Donor: Rector of the University of Miskolc and Chairman of its Scientific Council
2018 Memorial plaque for participation in the 67 most cited scientific works of the University of Miskolc, which had an H=67 index according to Google Scholar by the end of 2017. Donor: Rector of the University of Miskolc and Chairman of its Scientific Council
2021 Rector's Award: Outstanding Researcher of the University of Miskolc, Donor: Rector of the University of Miskolc and Chairman of its Scientific Council
2022 Rector's Award: Outstanding Researcher of the University of Miskolc, Donor: Rector of the University of Miskolc and Chairman of its Scientific Council
2023 Rector's Award: Outstanding Researcher of the University of Miskolc, Donor: Rector of the University of Miskolc and Chairman of its Scientific Council
2024 Rector's Award: Outstanding Researcher of the University of Miskolc, Donor: Rector of the University of Miskolc and Chairman of its Scientific Council

Graduated students led by :

Prof. Dr. Zsolt Csaba Johanyák , full professor, (2007), supervisor

Title of the dissertation: Fuzzy rule interpolation methods and automatic system generation based on sample data

Dr. Zoltán Krizsán, associate professor, (2014), supervisor

Thesis title: Extended FRI Methods and it's applications

Dr. Dávid Vincze, associate professor, (2014), supervisor

Thesis title: Fuzzy Rule Interpolation-based Q- learning

Mohammad Abdallah Almseidin , PhD, 2019, supervisor

Title of the dissertation: Fuzzy Automaton-based Early Detection Model

Maen Marwan Ali Al-Zu`bi , PhD, 2020, supervisor

Thesis title: Fuzzy Rule Interpolation and Benchmark System

Dr. Tamás Tompa, assistant professor, (2023), supervisor

Title of the dissertation: Fuzzy rule-interpolation state machine models and their tuning procedures

Students who have obtained their absolution:

Mohd Aaqib Lone , graduation date: 2022,

expected degree: 2025, **supervisor**

Research topic: Ethologically Inspired Fuzzy Behavior Based System

Ihab Razzaq Sekhi , graduation date: 2024,

expected degree: 2025, **co-supervisor (50 %)**

Research topic: Adaptive Fuzzy Logic Models for Efficient Cloud Service Management and SLA Optimization