

János Tapolcai, D.Sc.

CONTACT

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ACADEMIC EXPERIENCE

<i>Full Professor</i> at BME-TMIT	2015 – Current
<i>Associate Professor</i> at BME-TMIT	2011 – 2015
<i>Assistant Professor</i> at BME-TMIT	2005 – 2011

EDUCATION

D.Sc. [MTA Doctor Academiae Scientiarum Hungaricae]	2013
Ph.D. BME	2000 – 2005
• Adviser: [Dr. Recski Andás and Dr. Cinkler Tibor]	
M.Sc., Informatics BME	1995 – 2000
• Adviser: [Dr. Cinkler Tibor]	
High School	1991 – 1995
• Fazekas Mihály Primary and Secondary School, Budapest	

PROJECTS (NO PARTICULAR ORDER):

MTA Lendület, Principal Investigator	2012 – 2017
COST Action CA15127 (RECODIS) Work group co-leader	2016–2020
MINERVA - GEANT SDN Open Call Beneficiary of the GN3plus European Union FP7 Project	2013 – 2015
<i>Research Task Leader</i>	
• Topic: Implementing Network Coding in Transport Networks to Increase Availability	
• Participants: MTA-BME (Hungary), i2CAT (Spain)	
NNSERC Engage Grant - Natural Sciences and Engineering Research Council of Canada	2012
<i>Post-Doctoral Research Associate</i>	
• Topic: Multiple-Touch Monitoring on Touch Screens	

AWARDS

<i>INFOCOM Distinguished TPC Member Award</i>	2016
<i>Best Paper at Int. Conference on Networks and Network Applications (NaNA)</i>	2016
<i>Best Paper at Int. Conf. on High Performance Switching and Routing (HPSR)</i>	2015
<i>OTDT Excellent Teacher Award</i>	2015
<i>OTDT Mestertanar Award</i>	2015
<i>Google Faculty Award</i>	2013
<i>Winner of MTA's Momentum (Lendület) Program</i>	2012
<i>Excellent PhD supervisor award for Babarcsi Péter, High Speed Networks Laboratory</i>	2012
<i>Best Paper award at IEEE Design of Reliable Communication Networks</i>	2011
<i>Magyary Zoltán Postdoctoral Scholarship by the Hungarian Academy of Sciences</i>	2010 – 2011
<i>János Bolyai Research Scholarship by the Hungarian Academy of Sciences</i>	2006 – 2009
<i>Best Paper award at IEEE ICC in CQRM Symposium</i>	2006
<i>Outstanding Diploma (MSc) Work, Foundation for Hungarian Technical Development</i>	2000

TEACHING

Dept. of Telecommunications and Media Informatics, BME:

Network Planning(VITMM215): <i>Instructor</i>	2010–
• MSc computer engineering, MSc electrical engineering students (in English)	
Applied Optimisation and Game Theory (VITMD097): <i>Instructor</i>	2005–
• PhD course	
Grid Networks: <i>Instructor</i>	2006–2009
• MSc computer engineering, MSc electrical engineering students	
Network and Database Technologies (VITMM184): <i>Instructor</i>	2010–2012
• MSc business information systems students	

SUPERVISED
STUDENTS

<i>BSc students (2-3 per year)</i>	
<i>MSc students (2 per year)</i>	
<i>PhD students (1 graduated, 5 ongoing)</i>	
• Péter Babarczi (PhD)	2009–2012
• Éva Hosszu (PhD)	2012–
• Gergő Barta (PhD)	2013–
• Alija Pašić (PhD)	2013–
• László Gyimothy (PhD)	2015–
• Balázs Vass (PhD)	2016–

STUDENT
AWARDS
(UNDER MY
SUPERVISION)

<i>TDK and OTDK (11)</i>	
• Balázs Vass, 1st prize (at ELTE)	2016
• László Gyimóthi, 1st prize	2014, OTDK 1st prize
• Alija Pašić, 1st prize, OTDK 1st prize	2012
• Éva Hosszu and Ehsan Sarvghad Moghaddam, 2nd prize	2011
• Ferenc Tanai, 3rd prize	2010
• Péter Babarczi, 2nd prize	2007
• Gábor Bergmann, 2nd prize	2006
• Gábor Németh, 3rd prize	2005
• Gábor Viola and Diána Meskó, 1st prize	2002
• Gábor Makács, Csaba Gáspár, 2nd prize	2002

SCHOLARSHIPS
AND VISITS

<i>Princeton, USA</i> , invited by Ori Rottenstreich and Jennifer Rexford	2015
<i>Hebrew University of Jerusalem, Israel</i> , invited by Michael Schapira	2015
<i>Technion, Israel</i> , invited by Prof. Isaac Keslassy	2014
<i>Massachusetts Institute of Technology (MIT), USA</i> , invited by Prof. Muriel Médard	2014
<i>Cambridge University, UK</i> , invited by Dirk Trossen	2011
<i>University of Waterloo, Canada</i> , invited by Prof. Pin-Han Ho	2003 – 2011
• Visiting Researcher for a few weeks each year.	
<i>University of Girona, Spain</i> , invited by Josep L. Marzo, COST 293 STMSM	2007
<i>Queens University, Canada</i> , invited by Dr. H. T. Mouftah, [Visiting Scholar]	2001 fall semester
<i>University of New Hampshire</i> , M.Sc Scholarship	1999 fall semester

TECHNICAL
PROGRAM
COMMITTEE
MEMBER

ACM SIGCOMM'18 General chair
IEEE INFOCOM'16,'15,'14,'13,'12
IEEE ICC ONS'15,'14,'13,'12 CQRM symposium co-chair '13, '11
IEEE GLOBECOM NGN '14
IEEE DRCN'14, '13 chair, '11
IEEE NETWORKS'14,'12,'10,'08
IEEE RNDM'14,'13,'12,'11,'10,'09
IFIP Networking'14

JOURNAL
EDITOR

Springer Photonic Network Communications 2013 - current
Hindawi International Journal of Digital Multimedia Broadcasting, special issue on IPTV: Technology, Practice, and Service (guest) 2012

INVITED
SPEAKER

J. Tapolcai, "Multipath Routing with few Extra Rules", Princeton University, Usa 2015
J. Tapolcai, "Lossy Compression of Packet Classifiers", Networking Summer, Hebrew University, Israel 2015
J. Tapolcai, "Advanced Data Structures in Telecommunication", BME Matematikai Intézet Matematikai Modellalkotás Szemináriuma, Budapest 2014
J. Tapolcai, "Internet: a Critical Infrastructure for Society", TCE/ceClub talk, Technion, Israel 2014
J. Tapolcai, "Internet: a Critical Infrastructure for Society", Networking/distributed computing seminar of Michael Schapira, Hebrew University, Israel 2014
J. Tapolcai, "Resilient Flow Decomposition of Unicast Connections with Network Coding", Net-Meeting Seminar, Technion Israel 2014
J. Tapolcai, "Combinatorial problems in Telecommunications", ELTE seminar 2014
Pin-Han Ho, J. Tapolcai, L. Rónyai, "Is All-Optical Restoration Possible?", tutorial at IEEE DRCN 2013
J. Tapolcai, "Signaling-Free Failure Localization in All-Optical Mesh Networks via Monitoring Trails", keynote at IEEE RNDM 2011
J. Tapolcai, "Fast failure localization in Optical Networks", BME-SZIT Department seminar, Budapest 2010
L. Rónyai, J. Tapolcai, "Fast failure localization in Optical Networks", BME Mathematical Institute - Mathematical Modelling Seminar, Budapest 2010
J. Tapolcai, "Shared Protection in Survivable Telecommunication Networks", BME Mathematical Institute - Mathematical Modelling Seminar, Budapest 2003
J. Tapolcai, Pin-Han Ho, "Segment Shared Protection in Mesh Communication Networks", Forty-First Annual Allerton Conference on Communication, Control, and Computing 2003

PROFESSIONAL
SKILLS

Programming skills

- C/C++/LEMON, Java, Scripts.

Language skills

- English intermediate level.
- Russian intermediate level.

Hobby

- nothing besides three kid :)