

August 2019

CURRICULUM VITAE

Name: Andrzej Jajszczyk
Nationality: Polish
Degree: Professor, Dr Hab.
Position: Full Professor

Date of birth: January 23, 1952
Place of birth: Deblin, Poland

Member of Polish Academy of Sciences: from 2013

Member of *Academia Europaea*: from 2017

Address: Department of Telecommunications,
AGH University of Science Technology,
Al. Mickiewicza 30, 30-059 Krakow, Poland
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Education: 1979 – 1980 Post-graduate study in “Mathematical Foundations of Reliability Theory”
1969 - 1974 Poznan University of Technology

Qualifications: 1994 Professor (State title granted by the President of Poland)
1986 Dr Hab. in Telecommunications
1979 Ph.D. in Telecommunications
1974 MSc/BEng in Electrical Engineering

Affiliations: 2015 - Polish Academy of Sciences, Krakow Branch (President)
2010 - 2015 National Science Center (Polish research funding agency), Krakow, Poland
(founding Director)
1999 - AGH University of Science and Technology, Krakow, Poland (Professor)
1996 - 1999 University of Technology and Agriculture, Bydgoszcz, Poland (Professor)
1993 - 1996 EFP — The Franco-Polish School of New Information and Communication
Technologies, Poznan, Poland (Professor)
1974 - 1992 Institute of Electronics & Communications, Poznan University
of Technology, Poznan, Poland

Leaves: Sept. 1998 – Feb. 1999 Ecole Nationale Supérieure des Télécommunications de Bretagne,
Rennes, France
Jan. 1991 - Jan. 1993 Queen's University, Kingston, Ontario, Canada
Sept. 1989 - Sept. 1990 The University of Adelaide, Adelaide, Australia
Shorter leaves: Polytechnic University of Catalonia, Barcelona, Spain;
National Cheng Kung University, Tainan, Taiwan.

Other Activities:

2017 – Member of the Scientific Council of *European Research Council* (ERC)
2017 – Member of the Museum Council of *Manggha* Museum of Japanese Art and
Technology in Krakow, Poland
2014 – 2015 Member of the Governing Board of *Science Europe*



2011 – 2015	Member of the Museum Council of the National Museum in Krakow
2006 – 2007	Advisor (Strategy and Technology) to the President of <i>Polkomtel S.A.</i>
2004 –	Vice-President of <i>Kyoto-Krakow Foundation</i> fostering cultural and technical relation between Asia and Poland
2001 – 2007	President of the Supervisory Board of Alcatel Polska S.A. (since 2006 it became Alcatel-Lucent Polska S.A.).
1999 – 2001	Member of the Strategic Board of <i>Tel-Energo S.A.</i>
1998 – 2001	Member of the Advisory Board to the Minister of Telecommunications, Poland

Positions at IEEE Communications Society

2016 – 2017	Director of the Europe, Middle East & Africa Region
2008 – 2009	Vice President – Technical Activities
2010 – 2011	Director of Magazines
2006 – 2007	Director of the Europe, Africa, and Middle East Region
2004 – 2005	Director of Magazines

Research Areas:

IP networking;
Optical networks;
Network and service management;
Theory and practice of telecommunications switching, including photonic switching;
Reliability and survivability assurance in telecommunication networks;
Automatic control plane for optical networks;
Quality of service for IP-based networks; flow-aware networking;
Wireless networking.

Major Research Accomplishments:

Reformulation of Benes's theory of rearrangeable networks, complementing the theory by introducing a new class of repackable networks and proving nonblocking properties of a class of multiconnection networks. Introduction of some new structures of photonic switching networks and networks composed of digital switching matrices. Contribution to the theory of network survivability and introduction of new architectures and protocols for flow-aware networks.

Publications: 12 books + 4 book chapters,
132 journal papers,
179 papers published in conference proceedings,
81 papers on research and higher education
over 200 technical reports,
19 patents and 4 patent applications.

Citations

Thomson Reuters Web of Science: 1195 citations (Citing Articles: 920), h-index: 18

Google Scholar Citations: 2998 citations; *h index:* 24; *i10 index:* 64

In particular, the following papers are cited the most (*Google Scholar*):

- P. Demeester, M. Gryseels, A. Autenrieth, C. Brianza, L. Castagna, G. Signorelli, R. Clemente, M. Ravera, A. Jajszczyk, D. Janukowicz, K. Van Doorselaere, Y. Harada, "Resilience in multilayer networks", *IEEE Communications Magazine*, vol. 37, no. 8, August 1999, pp. 70-76 (307 citations)

- J. Gozdecki, A. Jajszczyk, R. Stankiewicz, "Quality of service terminology in IP networks", *IEEE Communications Magazine*, vol. 41, no. 3, March 2003, pp. 153-159 (281 citations)
- P. Cholda, A. Mykkeltveit, B. E. Helvik, O. J. Wittner, A. Jajszczyk, "A survey of resilience differentiation frameworks in communication networks," *IEEE Communications Surveys & Tutorials*, vol. 9, no. 4, Fourth Quarter 2007, pp. 32-55 (154 citations)
- R. Stankiewicz, P. Cholda, A. Jajszczyk, „QoX: what is it really?,” *IEEE Communications Magazine*, vol. 49, no. 4, April 2011, pp. 148-158 (148 citations)
- J. Garcia-Haro, A. Jajszczyk, "ATM shared-memory switching architectures", *IEEE Network*, vol. 8, no. 4, July/August 1994, pp. 18-26 (105 citations)
- R. Stankiewicz, A. Jajszczyk, "A survey of QoE assurance in converged networks," *Computer Networks*, vol. 55, no. 7, 2011, pp. 1459-1473 (89 citations)
- F. K. Hwang, A. Jajszczyk, "On nonblocking multiconnection networks," *IEEE Transactions on Communications*, vol. 34, no. 10, Oct.1986, pp. 1038-1041 (85 citations)
- A. Jajszczyk, "Automatically switched optical networks: benefits and requirements," *IEEE Communications Magazine*, vol. 43, no. 2, Feb. 2005, pp. S10-S15 (76 citations)
- A. Jajszczyk, "Nonblocking, repackable, and rearrangeable Clos networks: Fifty years of the theory evolution," *IEEE Communications Magazine*, vol. 41, no. 10, Oct. 2003, pp. 28-33 (74 citations)

Works of A. Jajszczyk cited in patents

Citations in USA patents (76):

US 5,134,704; US 5,414,706; US 5,451,936; US 5,455,956; US 5,504,824; US 5,604,734; US 5,801,641; US 5,987,027; US 6,185,222 B1, US 6,259,834 B1; US 6,477,174 B1, US 6,747,971 B1; US 7,020,135 B2; US 7,072,350 B2, US 7,209,454 B2; US 7,230,952 B2; US 7,378,938 B2; US 7,424,010 B2; US 7,424,011 B2; US 7,499,650 B2; US 7,532,635 B2; US 7,664,097 B2; US 7,773,877 B2; US 7,813,332 B1; US 7,817,619 B1; US 7,830,860 B2; US 7,835,344 B1; US 7,843,908 B2; US 7,881,183 B2; US 7,948,968 B2; US 7,984,185 B2; US 8,089,959 B2; US 8,116,629 B2; US 8,200,843 B2; US 8,320,759 B2; US 8,379,531 B2; US 8,401,348 B2; US 8,432,797 B2; US 8,553,681 B2; US 8,565,603 B2; US 8,737,776 B2; US 8,976,782 B1; US 9,043,884 B2; US 9,054, 955 B2; US 9,137,385 B2; US 9,143, 608 B2; US 9,152,748 B2; US 9,154,417 B2; US 9,179,005 B2; US 9,215,254 B1; US 9,325,413 B2; US 9,330,052 B2; US 9,344,187 B2; US 9,413,486 B2; US 9,537,762 B2; US 9,549,071 B2; US 9,554,360 B2; US 9,565,307 B2; US 9,614,787 B2; US 9,813,330 B2; US 9,819,436 B2; US 9,826,002 B2; US 9,853,721 B2, US 9,935,872 B2, US 9,948,549 B2, US 9,973,265 B2, US 9,998,363 B2, US 10,021,729 B2, US 10,036,396 B2, US 10,038,779 B2, US 10,120,989 B2, US 10,135,523 B2, US 10,218,606 B2, US 10,225,632 B1, US 10,244,296 B1

Citations in European patents (20):

EP 0396816; EP 0563415; EP 0569906B1; EP 0610672; EP 0717571; EP 0734188; EP 0806011; EP 0938243; EP 1043912 A2; EP 1175121 A1; EP1467591 B1; EP1467592 B1; EP 1794944 B1, EP1903693 B1; EP 1936911 B1; EP 2095583 B1; EP 2255542 B1; EP 2403185; EP2619682 A4; EP 3154273 A1

Editorial Positions:

From 2016 – Steering Committee Member of *IEEE Communications Standards Magazine*

2013 – 2016 Associate Editor-in-Chief of *China Communications* (CIC and IEEE)

From 2008 – Advisory/Editorial Board of *International Journal of Future Generation Communication and Networking* (SERSC, Korea)

From 2008 – International Advisory Committee of *Infocommunications Journal* (THE, Hungary)

From 2006 – Advisory Board of *Security and Communication Networks* (Wiley)

2006 – 2010 Senior Technical Editor, *IEEE Communications Magazine*

2004 – 2005, and 2010 – 2011 Director of Magazines, *IEEE Communications Society*

From 2004 – Member of the Editorial Board of *China Communications Magazine* (CIC)

2004 – 2009 – Editorial Advisory Board of *Computer Communications* (Elsevier)

From 2002 – Member of the Scientific Committee of *Annales des Télécommunications* (Hermes Science Publications)

2001 – 2011 Book Reviews column Editor of *IEEE Communications Magazine*

From 2000 – Member of the Advisory Board of *Przegląd Telekomunikacyjny*

From 1999 – Chair of the Editorial Advisory Board of *Journal of Telecommunications and Information Technology*

1998 – 2000 Editor-in Chief of *IEEE Communications Magazine*

(while serving as EIC, he introduced considerable changes within the editorial board and in the style requirements of ComMag. At the end of his three-year term, ComMag reached the top position of the impact factor list, the first and only time in the magazine's history. During his term the advertising revenue increased by 80%)

1994 – 1996 Founding Editor-in Chief of *IEEE Global Communications Newsletter*

1993 – 1997 Editor for Switching Theory and Fabrics of *IEEE Transactions on Communications*

Editing Special Issues:

1. *IEEE Journal on Selected Areas in Communications*, Special Issue on “Emerging Technologies”, vol. 31, no. 9, 2013
2. *IEEE Communications Magazine*, Feature topic on “Advances in control and management of connection-oriented networks, Pt. 2, vol. 45, no. 10, Oct. 2007
3. *IEEE Journal on Selected Areas in Communications* (USA), Special Issue on “Traffic Engineering for Multi-Layer Networks”, vol. 25, No. 6, June 2007
4. *IEEE Communications Magazine* (USA), Feature Topic on “Connection-Oriented Networks”, vol. 44, No. 12, Dec. 2006
5. *IEEE Communications Magazine* (USA), Special Issue on “Telecommunications in Transition — Moving Ahead: World Telecommunications Congress 2002”, vol. 41, No. 1, January 2003
6. *IEEE Communications Magazine* (USA), Special Issue on “Resilience in Communication Networks”, vol. 40, No. 1, January 2002
7. *IEEE Communications Magazine* (USA), Special Issue on “IP-Oriented Operations and Management”, *IEEE Communications Magazine*, vol. 39, No. 5, May 2001
8. *IEEE Communications Magazine* (USA), Special Issue on “Telecommunications Networking at the Start of the 21st Century”, vol. 39, No. 1, January 2001
9. *IEICE Transactions on Communications* (Japan), Special Issue on “Recent Progress in ATM Technologies”, vol. E83-B, No. 2, February 2000
10. *IEEE Journal on Selected Areas in Communications* (USA), Special Issue on “Telecommunications in Eastern Europe and Russia”, vol. 12, No. 7, September 1994

Reviews for: *ACM Computing Surveys, Annales des Télécommunications, Computers & Security, Discrete Applied Mathematics, IEEE/ACM Transactions on Networking, IEEE Communications Letters, IEEE Communications Magazine, IEEE Press, IEEE Journal on Selected Areas in Communications, IEEE Transactions on Communications, IEEE Transactions on Industrial Electronics, IEEE/OSA Journal of Lightwave Technology, Information Processing Letters, International Journal of Communication Systems, Journal of Parallel and Distributed Computing, Optical Switching and Networking, National Science Foundation (USA),* and numerous conferences.

Reviews for Research Funding Agencies

- *Severo Ochoa Centres of Excellence and María de Maeztu Units of Excellence, Spain, 2017*
- *START programme, Foundation for Polish Science (FNP) 2015, 2016, 2017*

- *PRIDE programme, Fonds National de la Recherche, Luxembourg, 2015 – 2016*
- *TEAM programme, Foundation for Polish Science (FNP) 2008, 2009, 2010*
- *HOMING Programme, Foundation for Polish Science (FNP) 2010*
- *Natural Sciences and Engineering Research Council of Canada (NSERC), Canada, 2013, 2014*
- *National Science Foundation, USA*
- *Multiple proposal reviews for Polish Ministry of Research and Higher Education and the Committee for Scientific Research.*

Leading Research Groups in European Projects:

1. SmoothIT (No. 216259), “Simple Economic Management Approaches of Overlay Traffic in Heterogeneous Internet Topologies”, 7th Framework Program (*Collaborative Project*), 2008-2010.
2. EuroNF, (No. 216366) “Anticipating the Network of the Future — From Theory to Design”, 7th Framework Program (Network of Excellence), 2008-2010.
3. EuroFGI (No. 028022), “Design and Engineering of the Future Generation Internet”, 6th Framework Program (Network of Excellence), 2006-2008.
4. “Performance Evaluation and Design of a Flow-Aware Networking Architecture”, research project funded by *France Telecom R&D*, Paris, France (Research Agreement no. 46135327, Oct. 1, 2005), 2005-2007.
5. EuroNGI (No. 507613), “Design and Engineering of the Next Generation Internet: Towards Convergent Multi-service Networks”, 6th Framework Program (Network of Excellence), 2003-2006.
6. NOBEL II (No. 027305), “Next Generation Optical Networks for Broadband European Leadership Phase 2, 6th Framework Program (Integrated Project), 2006-2008.
7. NOBEL (No. 506760), “Next Generation Optical Network for Broadband in Europe”, 6th Framework Program (Integrated Project), 2004-2006.
8. LION (IST-1999-11387), “Layers Interworking in Optical Networks”, 5th Framework Program, 2000-2003.
9. 3^{ème} série de CTI (Consultations Thématiques Informelles) for CNET Lannion (France), “Architecture of Photonic Packet Networks”.
10. “System Management Function Scheduling”, project for Alcatel-SEL, Berlin, Germany, 1994-1995.
11. ACTS, AC 205, “PANEL — Protection Across Network Layers”, 1996-1998.
12. COPERNICUS, COP 579, “Research on ATM: Call Admission Control and Network Policing by Neural Networks and Performance Evaluation”, 1995-1997.

Principal Investigator in Selected National Research Projects:

1. MNiSW (Ministry of Science and Higher Education), No N N517 555239, “Methods of reliability assurance in overlay networks” (2010-2013)
2. MNiSW (Ph.D. project), No N N517 394538, “Routing system assuring effective distribution of interdomain traffic in multiple operator environment” (2010-2011)
3. MNiSW, No N N517 394338, “System for autonomous traffic engineering and resource control of operator-grade aggregate Ethernet networks” (2010-2012)
4. MNiSW (Ph.D. project), No N N517 191137, “Increasing of GMPLS network reliability by modifications of the control plane” (2009-2010)
5. MNiSW (Ph.D. project), No N N517 390134, “Congestion control in flow-aware networks” (2008-2009)
6. MNiSW, No N517 013 32/2131, “Assessment and planning of modern telecommunication networks with differentiated quality and reliability” (2007-2010)
7. MNiSW (Ph.D. project), No 3 T11D 012 29, “Reliability analysis of recovery procedures in optical IP networks using GMPLS” (2005-2006).

Awards:

- 2017 *2017 Distinguished Technical Achievement Award*. In recognition of outstanding technical contributions and services in the area of Communications Switching and Routing. IEEE Communications Society. Communications Switching & Routing Technical Committee
- 2012 *Krakow Allianz Prize 2011 "Culture Science Media"*, Krakow, February 2012
- 2011 *Leader of Polish Teleinformatics – Gold Cyborg (Lider Polskiej Teleinformatyki Złoty Cyborg)*. For the outstanding contribution in the research on the development of next generation optical networks, Lodz, September 2011
- 2011 Janusz Groszkowski Medal (*Medal im. Prof. Janusza Groszkowskiego*). No. 426. Association of Polish Electrical Engineers, Warsaw, May 2011
- 2008 *Foundation for Polish Science (FNP) Prize for research in the area of the theory of high-speed switching networks for the Next Generation Internet*
- 2008 *IEEE Communications Society Joseph LoCicero Award for Exemplary Service to Publications*
- 2008 *Siemens Award, for Research on Next Generation Telecommunications Networks and Systems*, Warsaw, June 2008
- 2006 *Best Paper Award IEEE International Conference on Communications ICC 2006*
- 2000 *Award for Achievements in Telecommunications*, Int. Telecommunications Day, April 2000
- 2000 *Best Paper in Telecommunications Review in 1999 Award*
- 1999 *Best Presentation Award at Fixed Network Optimisation Conference, EuroForum, October, 1999*
- 1999 *IEEE Fellowship, for contributions to the theory and practice of telecommunications switching*
- 1995 *Honorable Mention, IEEE Communications Society Best Tutorial Paper Award*
- 1994 *Honorable Mention, Frederick W. Ellersick Prize Paper Award for Best Paper in the Communications Magazine 1993*
- 1987 *The Copernicus Award for Outstanding Achievements in Creative Work*
- 1980, 1984, 1987, 1994, 1996 Awards of the *Ministry of Science, Higher Education and Technology* for Achievements in Research

Industrial Activities:

Consultant to industry, telecommunications operators, and government agencies in Poland (e.g., Alcatel Poland, Polkomtel S.A., Telekomunikacja Polska S.A., Tel-Energo, Teletra S.A., PPW Inventel, Telefonía Lokalna), Australia (e.g., Defence Science and Technology Organisation), Canada (e.g., Northern Telecom – Calgary), China, (Ministry of Science and Technology of China), France (e.g., Cegetel), Germany (e.g., Alcatel-SEL – Stuttgart), USA (e.g., Gladsis, Holmdel, NJ), India (e.g., Tata Consultancy Services Ltd., Bombay, Axes Technologies, Bangalore, CG-Smith Software, Bangalore).

He has been involved in several projects for industry concerning the design and performance evaluation of electronic narrowband and broadband switching systems (e.g., for Telkom-Teletra and Telkom-ZWUT in Poland, Australia Telecom, OTC Ltd., and DSTO in Australia, France Telecom R&D in France)

Membership: IEEE Communications Society (Fellow)
Association of Polish Electrical Engineers (Member).

Teaching: Principles of Telecommunications Switching, Digital Switching Systems, Computer Communications, Computer Networks, Photonic Switching Systems, Fundamentals of Telecommunications Networks, Introduction to Network Management, Optical IP Networks, Selected Topics in High-Speed Networks

Tutorials delivered in: Australia, Canada, China, Costa Rica, Egypt, France, Germany, Greece, India, Italy, Mexico, Panama, Peru, Poland, South Africa, Spain, Taiwan, USA

On-line courses

“Automatically Switched Optical Networks”, 5-day *on-line* course, Stevens Institute of Technology, Hoboken, NJ, USA, available in 2004

<http://eseminars.stevens.edu/cgi-bin/professional/ICS006WS01.html?id=co4hGSDU>

“Architectures of Intelligent Optical Networks”, 3-hour *on-line* course, IEEE Communications Society within the *Tutorials Now* program.

Available at: <http://www.comsoc.org/livepubs/tutorials/index.htm>

Keynote, Plenary, and Invited Speeches

1. A. Jajszczyk, „Flow-Aware Networking – A Powerful Tool for QoS Assurance in IP Networks”, *31st International Symposium on Computer and Information Sciences*, Krakow, Poland, October 27, 2016 (Keynote Speech)
2. A. Jajszczyk, „Technological and business dimensions in survivable network design”, July 23, 2013, *Optical Internetworking Forum 3Q2013 Meeting*, Warsaw (Guest Lunch Time Speaker)
3. A. Jajszczyk, “Quality Guarantees in Internet – Not Only Technical Challenges.” *35th Symposium on Contemporary Economy and Public Administration*. Zakopane, Poland , May 18-20, 2012 (Master’s Lecture)
4. A. Jajszczyk, “New Technologies in Telecommunications and How They Influence the Development of Services?” *Perspectives for the Development of the Electronic Communications Market in the EU*, Warsaw, Poland, October 19-20, 2011 (Keynote Presentation)
5. A. Jajszczyk, “Future Networks Research in Poland,” *Future Networks & Mobile Summit 2011*, Warsaw, Poland, June 15-17, 2011 (Plenary Talk)
6. A. Jajszczyk, “Quality of Network Resilience — Challenges, Solutions, and Trends,” *30th International Conference on Distributed Computing Systems ICDCS 2010*, Genova, Italy, 21-25 May 2010 (Keynote Speech)
7. A. Jajszczyk, “Multilayer Network Resilience”, *Optical Fiber Communication Conference and Exposition OFC 2009*, San Diego, California, USA, March 22-26, 2009 (Invited Tutorial)
8. J. Perelló, S. Spadaro, I. E. Svinnet, E. Zouganeli, P. Cholda, A. Jajszczyk, K. Wajda, D. Verchere, R. Gruenzinger, J. Fernández-Palacios, O. González de Dios, V. Chandrakumar, “The NOBEL2 Approach to Resilience in Future Transport Networks,” *34th European Conference and Exhibition on Optical Communication ECOC 2008*, Brussels, Belgium, 21-25 September 2008, vol. 3, pp. 85-86 (Invited Paper)
9. A. Jajszczyk, “Quality of Service Challenges in IP Networks,” *Third International Conference on Communications and Networking in China CHINACOM 2008*, Hangzhou, China, 25-27 August 2008 (Keynote Speech)
10. P. Cholda, A. Jajszczyk, “Perspectives of Quality of Recovery (QoR) Implementation with GMPLS-based Control Plane”, *Proc. VI Workshop in G/MPLS Networks*, Edited by P. Vilà & E. Calle, Girona, Spain, 12-13 April 2007, pp. 61-73 (Keynote Speech)
11. J. Derkacz, A. Jajszczyk, A. Lasoń, J. Rząsa, K. Wajda, “Next Generation Optical Networks for Broadband Services: The IST NOBEL Approach”, *6th International Conference on Transparent Optical Networks ICTON 2004*, Wrocław, Poland, July 4-8, 2004, pp. 69-74 (Invited Paper)

12. A. Jajszczyk, "The ASON Approach to the Control Plane for Optical Networks", *6th International Conference on Transparent Optical Networks ICTON 2004*, Wrocław, Poland, July 4-8, 2004, pp. 87-90 (Invited Paper)
13. A. Jajszczyk, "50 Years of Clos Networks: A Survey of Research Issues", *Workshop on High Performance Switching and Routing HPSR 2003*, Torino, Italy June 24-28, 2003 (Invited Talk)
14. A. Jajszczyk, M. Kubale, "Repackable networks — the concept and applications", *Advances in Switching Networks, DIMACS Workshop*, Princeton, NJ, USA, July 7-9, 1997; in: D.-Z. Du and F. K. Hwang (Eds), *DIMACS Series in Discrete Mathematics and Theoretical Computer Science*, vol. 42, American Mathematical Society, 1998, pp. 75-83 (Invited Paper)

Conference Organization:

Creation and organization of new conferences

1. Technical Program Committee Chair, *IEEE Workshop on IP-oriented Operations & Management IPOM '2000*, Kraków, September 18-20, 2000 (next conferences were held in Taiwan, USA, China, Ireland, and Greece).
2. Co-chair and Technical Program Chair of the *1st IEEE Int. Workshop on Broadband Switching Systems BSS '95*, Poznań, Poland, April 1995 (this workshop, after merging with two other conferences, and changing the name to *IEEE High Performance Switching and Routing*, became the most important yearly event in telecommunications switching).

Chairing or co-chairing of conferences

1. General Co-Chair, *IEEE Conference on Communications ICC 2018*, Kansas City, USA, 2018
2. General Co-Chair, *IEEE High Performance Switching and Routing HPSR 2014*, Vancouver, Canada, June 2014
3. Honorary Chair, *IEEE International Conference on Emerging Technologies and Factory Automation ETFA 2012*, Krakow, Poland, September 18- 20, 2012
4. General Co-Chair, *24th International Teletraffic Congress ITC 24*, Krakow, Poland, September 4-7, 2012
5. General Chair, *8th International Workshop Design of Reliable Communication Networks DRCN 2011*, Krakow, Poland, October 9-12, 2011
6. General Co-Chair, *IEEE High Performance Switching and Routing IEEE HPSR 2011*, Cartagena, Spain, June 27-29, 2011
7. Chair, *4th Conference on Next Generation Internet Networks NGI 2008 [IEEE]*, Krakow, Poland, April 28-30, 2008
8. Co-Chair, *Workshop on GMPLS Performance Evaluation: Control Plane Resilience, IEEE International Conference on Communications ICC 2007*, Glasgow, UK, June 24, 2007
9. Chair, *3rd EuroNGI Workshop on Traffic Engineering, Protection and Restoration for NGI*, Kraków, Poland, May 4-5, 2006
10. International Vice-Chair, *IEEE INFOCOM 2006 25th Annual Conference on Computer Communications*, Barcelona, Spain, 23-29 April 2006
11. Information Networking Track Chair, *2nd International Conference on Information Technology: Research and Education ITRE 2004*, London, UK, June 28-July 1, 2004

12. Symposium Co-Chair, *High-Speed Networks Symposium, IEEE International Conference on Communications ICC 2002*, New York, NY, USA, April 28- May 2, 2002
13. General Co-Chair, *The Fifth IEEE Symposium on Computer and Communications ISCC '2000*, Antibes-Juan les Pins, France, July 4-6, 2000

Other positions at Executive Committees

1. Tutorial Chair, *15th International Telecommunications Network Strategy and Planning Symposium NETWORKS 2012*, Rome, Italy, Oct. 15-18, 2012
2. Tutorial Chair, *14th International Telecommunications Network Strategy and Planning Symposium NETWORKS 2010*, Warsaw, Poland, Sept. 27-30, 2010
3. Tutorial Co-Chair, *IEEE International Conference on Communications ICC 2009*, Dresden, Germany, June 14-18, 2009
4. Tutorial Chair, *NETWORKS 2008, 13th International Telecommunications Network Strategy and Planning Symposium*, Budapest, Hungary, Sept. 28 – Oct. 2, 2008

Advisory or Steering Committee membership

1. International Advisory Committee Member, *International Conference on ICT Convergence ICTC 2010*, Jeju Island, Korea, November 17-19, 2010
2. Steering Committee Member, *International Workshop Design of Reliable Communication Networks DRCN*; from 2010
3. International Advisory Board Member, *First International Conference on Future Information Networks*, Beijing, China, October 14-17, 2009
4. International Advisory Committee Member, *IEEE International Symposium on Advanced Networks and Telecommunications Systems ANTS*; from 2007
 - *4th IEEE International Symposium on Advanced Networks and Telecommunication Systems ANTS*, Mumbai, India, December 16-18, 2010
 - *3rd IEEE International Symposium on Advanced Networks and Telecommunication Systems ANTS*, New Delhi, India, December 14-16, 2009
 - *2nd IEEE International Symposium on Advanced Networks and Telecommunications Systems ANTS*, Mumbai (Bombay), India, December 15-17, 2008
 - *First International Symposium on Advanced Networks and Telecommunications Systems ANTS*, Mumbai (Bombay), India, December 17-18, 2007
5. Steering Committee Member, *IEEE International Workshop on IP Operations & Management IPOM*; from 2004
 - *9th IEEE International Workshop on IP Operations & Management IPOM 2009*, Venice, Italy, October 29-30, 2009
 - *8th IEEE International Workshop on IP Operations & Management IPOM 2008*, Samos Island, Greece, September 22-23, 2008
 - *7th IEEE International Workshop on IP Operations & Management IPOM 2007*, San Jose, California, USA, October 31 – November 2, 2007
 - *6th IEEE International Workshop on IP Operations & Management IPOM 2006*, Dublin, Ireland, October 23-26, 2006

- 5th *IEEE International Workshop on IP Operations & Management IPOM 2005*, Barcelona, Spain, October 26-28, 2005
 - *IEEE International Workshop on IP Operations & Management IPOM 2004*, Beijing, China, October 11 – 13, 2004
6. Steering Committee Member, *Krajowe Sympozjum Telekomunikacji i Teleinformatyki KSTiT [National Symposium on Telecommunications and Teleinformatics]*; from 2007
- 35th *KSTiT*, Wrocław, 26-28 June, 2019
 - 34th *KSTiT*, Bydgoszcz, 12-14 September, 2018
 - 33rd *KSTiT*, Warszawa, 13-15 September, 2017
 - 32nd *KSTiT*, Gliwice, 26-28 September, 2016
 - 31st *KSTiT*, Kraków, 16-18 September, 2015
 - 30th *KSTiT*, Poznań, 3-5 September, 2014
 - 29th *KSTiT*, Gdańsk, Poland, 4-6 September 2013
 - 28th *KSTiT*, Warszawa-Miedzeszyn, Poland, 12-14 September 2012
 - 27th *KSTiT*, Łódź, Poland, 14-16 September 2011
 - 26th *KSTiT*, Wrocław, Poland, 8-10 September 2010
 - 25th *KSTiT*, Warsaw, Poland, September 16-18, 2009
 - 24th *KSTiT*, Bydgoszcz, Poland, September 10-12, 2008
 - 23th *KSTiT*, Bydgoszcz, Poland, September 12-14, 2007
7. Advisory Board Member, *IEEE International Conference on High Performance Switching and Routing HPSR*; from 2002
- 14th *International Conference on High Performance Switching and Routing HPSR 2014* [IEEE], Vancouver, Canada, June 2014
 - 13th *International Conference on High Performance Switching and Routing HPSR 2012* [IEEE], Belgrade, Serbia, June 24-27, 2012
 - 12th *International Conference on High Performance Switching and Routing HPSR 2011* [IEEE], Cartagena, Spain, July 4-6, 2011
 - 11th *International Conference on High Performance Switching and Routing HPSR 2010* [IEEE], Richardson, Texas, USA, June 14-16, 2010
 - 11th *International Conference on High Performance Switching and Routing HPSR 2010* [IEEE], Richardson, Texas, USA, June 14-16, 2010
 - *IEEE Workshop on High Performance Switching and Routing HPSR 2009* [IEEE], Paris, France, June 22-24, 2009
 - *International Conference on High Performance Switching and Routing HPSR 2008*, Shanghai, China, May 15-17, 2008
 - *Workshop on High Performance Switching and Routing HPSR 2007*, Brooklyn, NY, USA, May 30 - June 1, 2007
 - *Workshop on High Performance Switching and Routing HPSR 2006* [IEEE], Poznań, Poland, June 7-9, 2006

- *IEEE Workshop on High Performance Switching and Routing HPSR 2005* [IEEE], Hong Kong, May 12-14, 2005
 - *Workshop on High Performance Switching and Routing: Phoenix HPSR 2004* [IEEE], Phoenix, Arizona, USA., April 19-21, 2004
 - *Workshop on High Performance Switching and Routing HPSR 2003*, Torino, Italy, June 24-28, 2003
 - *Workshop on High Performance Switching and Routing HPSR 2002*, Kobe, Japan, May 26-29, 2002
8. International Advisory Committee Member, *International Conference on Networking ICN*; from 2001
 - *3rd International Conference on Networking ICN'04*, Pointe-a-Pitre, Guadeloupe, March 1-4, 2004
 - *IEEE International Conference on Networking ICN '01*, Colmar, France, July 11-13, 2001
 9. Advisory Committee Member, *International Conference on Communication and Broadband Networking (ICBN)*, Bangalore, India, May 5-7, 2003
 10. International Advisory Committee Member, *Advanced Technologies, Applications and Market Strategies for 3G ATAMS '2001*, Cracow, Poland, June 18-20, 2001
 11. International Advisory Committee Member, *IEEE International Conference on Third Generation Wireless Communications (Mini-Workshop: 3rd Int. Workshop on Wireless Mobile ATM Implementation)*, Silicon Valley, USA, June 14-16, 2000
 12. International Advisory Committee Member, *IEEE 50th Vehicular Technology Conference*, Amsterdam, The Netherlands, September 19-22, 1999
 13. Workshop Advisory Committee Member, *The Second International Workshop on Wireless Mobile ATM*, Bay Area, USA, June 2-4, 1999

Technical Program Committee Membership

1. Technical Program Committee Member, *IEEE 21st International Conference on High Performance Switching and Routing*, IEEE HPSR 2020, Newark, New Jersey, USA, May 2020
2. Technical Program Committee Member, *IEEE 20th International Conference on High Performance Switching and Routing*, IEEE HPSR 2019, Xi'an, China, May 2019
3. Technical Program Committee Member, *IEEE 19th International Conference on High Performance Switching and Routing*, IEEE HPSR 2018, Bucharest, Romania, June 2018
4. Technical Program Committee Member, *IEEE 18th International Conference on High Performance Switching and Routing*, IEEE HPSR 2017, Campinas, São Paulo, Brazil, 2017
5. Technical Program Committee Member, *IEEE 17th International Conference on High Performance Switching and Routing*, IEEE HPSR 2016, Yokohama, Japan, 2016
6. Technical Program Committee Member (subcommittee SC4), *Asia Communications and Photonics Conference and Exhibition ACP 2011*, Shanghai, China, November 14-16, 2011
7. Technical Program Committee Member, *3rd International Workshop on Reliable Networks Design and Modeling*, Budapest, Hungary, October 5-7, 2011
8. Technical Program Committee Member, *23rd International Teletraffic Congress ITC 2011*, San Francisco, CA, USA, September 6-8, 2011

9. Technical Program Committee Member, *7th Euro-NF Conference on Next Generation Internet*, Kaiserslautern, Germany, June 27-29, 2011
10. Technical Program Committee Member, *1st European Teletraffic Seminar*, Poznań, Poland, February 14-16, 2011
11. Program Committee Member, *The 2010 International Conference on Future Generation Communication and Networking*, Jeju, Jeju Island, Korea, December 15-17, 2010
12. Technical Program Committee Member (subcommittee SC4), *Asia Communications and Photonics Conference and Exhibition ACP 2010*, Shanghai, China, December 8-12, 2010
13. Technical Program Committee Member, *IEEE International Conference on Communication Systems ICCS 2010*, Singapore, November 17-20, 2010
14. Technical Program Committee Member, *The Australasian Telecommunication Networks and Applications Conference ATNAC 2010*, Auckland, New Zealand, October 31 – November 2, 2010
15. Technical Program Committee Member, *2nd International Workshop on Reliable Networks Design and Modeling*, Moscow, Russia, October 18-20, 2010
16. Technical Program Committee Member, *22nd International Teletraffic Congress ITC 22*, Amsterdam, Netherlands, September 7-9, 2010
17. Technical Program Committee Member, *6th Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks HET-NETs 2010*, Zakopane, Poland, January 14-15, 2010
18. Program Committee Member, *The 2009 International Conference on Future Generation Communication and Networking FGCM 2009*, Jeju Island, Korea, December 10-12, 2009
19. Technical Program Committee Member, *16th Polish Teletraffic Symposium PTS 2009*, Łódź, Poland, September 24-25, 2009
20. Technical Program Committee Member, *21st International Teletraffic Congress ITC 21*, Paris, France, September 15-17, 2009
21. Technical Program Committee Member, *The First International Workshop on Neutral Access Networks NEUTRAL 2009*, Cannes, France, August 23-29, 2009
22. Technical Program Committee Member, *Conference on Next Generation Internet Networks Euro-NGI 2009*, Aveiro, Portugal, July 1-3, 2009
23. Technical Program Committee Member, *International Workshop on Traffic Management and Traffic Engineering for the Future Internet FITraMEn 2008*, Porto, Portugal, December 11-12, 2008
24. Program Committee Member, *The 2nd International Conference on Future Generation Communication and Networking FGCM 2008*, Hainan Island, China, December 13-15, 2008
25. Technical Program Committee Member, *5th Polish-German Teletraffic Symposium PGTS'08*, Berlin, Germany, October 6-7, 2008
26. Technical Program Committee Member, *8th IEEE International Workshop on IP Operations and Management IPOM 2008*, Samos, Greece, September 22-23, 2008
27. Technical Program Committee Member, *European Conference on Optical Communications ECOC 2008*, Brussels, Belgium, September 21-25, 2008
28. Technical Program Committee Member, *Third International Workshop on Guaranteed Optical Service Provisioning GOSP-2008*, Co-located with BROADNETS 2008, September 8-11, London, UK
29. Technical Program Committee Member, *IEEE Peer-to-Peer for Handheld Devices Workshop (IEEE P2P HD 2008)*, Las Vegas, NV, USA, January 12, 2008

30. Program Committee Member, *The 2007 International Conference on Future Generation Communication and Networking FGNC-07*, Jeju-Island, Korea, December 6-8, 2007
31. Technical Program Committee Member, *2007 Australasian Telecommunication Networks and Applications Conference ATNAC 2007*, Christchurch, New Zealand, December 2-5, 2007
32. Technical Program Committee Member, *7th IEEE International Workshop on IP Operations & Management IPOM 2007*, San Jose, California, USA, October 31 – November 2, 2007
33. Technical Program Committee Member, *14th Polish Teletraffic Symposium PTS 2007*, Zakopane, Poland, September 20-21 September 2007
34. Technical Program Committee Member, *3rd Euro-NGI Conference on Next Generation Internet Networks*, [IEEE]. Trondheim, Norway, May 21-23, 2007
35. Technical Program Committee Member, *4th European Conference on Universal Multiservice Networks ECUMN 2007*, Toulouse, France, January 29-31, 2007
36. Technical Program Committee Member, *IEEE Global Telecommunications Conference GLOBECOM 2006*, San Francisco, California, USA, November 27 – December 1, 2006
37. Technical Program Committee Member, *2nd IEEE ComSoc/CreateNet International Workshop on Guaranteed Optical Service Provisioning GOSP 2006*, co-located *BroadNets 2006*, San Jose, California, USA, Oct. 1-5, 2006
38. Technical Program Committee Member, *4th Polish-German Teletraffic Symposium PGTS'2006*, Wroclaw, Poland, September 21-22, 2006
39. Technical Program Committee Member, *2nd Conference on Next Generation Internet Design and Engineering* [IEEE], Valencia, Spain, April 3-5, 2006
40. Technical Program Committee Member, *Symposium on Photonic Technologies for Communications, IEEE Global Telecommunications Conference GLOBECOM 2005*, St. Louis, MO, USA, November 28 – December 2, 2005
41. Technical Program Committee Member, *The 5th IEEE International Workshop on IP Operations & Management IPOM 2005*, Barcelona, Spain, October 26-28, 2005
42. Technical Program Committee Member, *First IEEE/CreateNet International Symposium on Guaranteed Optical Service Provisioning GOSP 2005*, Co-located with IEEE/CreateNet BROADNETS 2005, October 3-7, 2005, Boston, USA
43. Technical Program Committee Member, *12th Polish Teletraffic Symposium PSRT 2005*, Poznan, 19-20 September 2005
44. Member of the Scientific Committee, *Third International Working Conference HET-NETs'05 Performance Modelling and Evaluation of Heterogeneous Networks*, Ilkley, UK, July 18-20, 2005
45. Technical Program Committee Member, *Symposium on Optical Networking, IEEE Conference on Communications ICC 2005*, Seoul, Korea, May 16-20, 2005
46. Technical Program Committee Member, *2nd EuroNGI Workshop on Traffic Engineering, Protection and Restoration for NGI*, Rome, Italy, April 21-22, 2005
47. Technical Program Committee Member, *1st EuroNGI Conference on Next Generation Internet Networks — Traffic Engineering* [IEEE], Rome, Italy, April 18-20, 2005
48. Technical Program Committee Member, *Optical Communications, Networks, and Systems Symposium, IEEE Global Telecommunications Conference GLOBECOM 2004*, Dallas, Texas, USA, November 29 – December 3, 2004

49. Technical Program Committee Member, *2004 IEEE International Workshop on IP Operations & Management IPOM 2004*, Beijing, China, October 12-13, 2004
50. Program Committee Member, *Fifth International Workshop on Quality of future Internet Services QofIS'04*, Barcelona, Spain, September 29 – October 1, 2004
51. Technical Program Committee Member, *Joint Conference: 12th GI/ITG Conference on Measuring, Modelling and Evaluation of Computer and Communication Systems MMB and 3rd Polish-German Teletraffic Symposium PGTS*, Dresden, Germany, September 12-15, 2004
52. Program Committee Member, *2nd International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks HET-NET '04*, Ilkley, UK, July 26-28, 2004
53. Technical Program Committee Member, *2004 International Symposium on Performance Evaluation of Computer and Telecommunication Systems SPECTS'04*, San Jose, California, USA, July 25-29, 2004
54. Technical Program Committee Member, *10th Polish Teletraffic Symposium PSRT 2003*, Krakow, 18-19.09.2003
55. Technical Program Committee Member, *The 28th IEEE Conference on Local Computer Networks LCN 2003*, Bonn, Germany, October 20-24, 2003
56. Scientific Committee Member, *First International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks HET-NET '03*, Ilkley, UK, July 21-23, 2003
57. Technical Program Committee Member, *International Symposium on the Performance Evaluation of Computer and Telecommunication Systems SPECTS 2003*, Montreal, Quebec, Canada, July 20-25, 2003
58. Program Committee Member, *Optical Networking Symposium, IEEE Conference on Communications ICC 2003*, Anchorage, Alaska, USA, May 11-15, 2003
Technical Program Committee Member, *The Seventh IEEE Symposium on Computer and Communications ISCC '2002*, Taormina, Italy, July 1-4, 2002
60. Technical Program Committee Member, *2002 Workshop on High Performance Switching and Routing HPSR 2002*, Kobe, Japan, May 26-29, 2002
61. Technical Program Committee Member, *Network Operations and Management Symposium NOMS 2002*, Florence, Italy, April 15-19, 2002
62. Program Committee Member, *2nd European Conference on Universal Multiservice Networks ECUMN'02*, Colmar, France, April 8-10, 2002
63. Technical Program Committee Member, *The 26th Annual IEEE Conference on Local Computer Networks LCN 2001*, Tampa, Florida, USA, November 14-16, 2001
64. Technical Program Committee Member, *12th IFIP/IEEE Int. Workshop on Distributed Systems Operations & Management DSOM 2001*, Nancy, France, October 15-17, 2001
65. Technical Program Committee Member, *NATO Regional Conference on Military Communications and Information Systems*, Zegrze, Poland, October 10-12, 2001
66. International Scientific Committee Member, *Third International Workshop on the Design of Reliable Communication Networks DRCN 2001*, Budapest, Hungary, October 7-10, 2001
67. Technical Program Committee Member, *International Symposium on the Performance Evaluation of Computer and Telecommunication Systems SPECTS 2001*, Orlando, Florida, USA, July 15-19, 2001
68. Technical Program Committee Member, *The 6th IEEE Symposium on Computers and Communications ISCC '2001*, Hammamet, Tunisia, July 3-5, 2001

69. Technical Program Committee Member, *2001 IEEE Workshop on High Performance Switching and Routing HPSR 2001*, Dallas, Texas, USA, May 29-31, 2001
70. Program Committee Member, *Protocols for Multimedia Systems PROMS '2000*, Kraków, Poland, October 22-25, 2000
71. Scientific Program Committee Member, *1st IEEE European Conference on Universal Multiservice Networks ECUMN'2000*, Colmar, France, October 16-18, 2000
72. Technical Program Committee Member, *First Polish-German Teletraffic Symposium PGTS 2000*, Dresden, Germany, September 24-26, 2000
73. Technical Program Committee Member, *Symposium on the Performance Evaluation of Computer and Telecommunication Systems SPECTS 2000*, Vancouver, B.C., Canada, July 16-20, 2000
74. Technical Program Committee Member, *IEEE Conference on High Performance Switching and Routing HPSR 2000*, Heidelberg, Germany, June 26-29, 2000
75. Technical Program Committee Member, *International Conference on Telecommunications ICT 2000*, Acapulco, Mexico, May 22-25, 2000
76. International Scientific Committee Member, *Second International Workshop on the Design of Reliable Communication Networks DRCN 2000*, Munich, Germany, April 10-12, 2000
77. Technical Program Committee Member, *Broadband Access Conference – BAC'99*, Krakow, October 11-13, 1999
78. International Technical Committee Member, *1999 International Workshop on Mobile Communications*, Chania, Crete, Greece, June 24-26, 1999
79. Technical Program Committee Member, *3rd IEEE International Workshop on Broadband Switching Systems BSS '99*, Kingston, Ontario, Canada, June 1-3, 1999
80. Technical Program Committee Member, *IEEE ATM '99 Workshop*, Kouchi, Japan, May 24-27, 1999
81. Technical Committee Member, *3rd IFIP WG 6.2 Workshop on Traffic Management and Synthesis of ATM Networks*, London, UK, April 26-28, 1999
82. Technical Program Committee Member, *IV International Conference and Exhibition: Communications, Networks, Internet, COMNET*, Warsaw, June 17-19, 1998
83. Technical Program Committee Member, *IEEE ATM '98 Workshop*, Fairfax, VA, USA, May 26-29, 1998
84. International Scientific Committee Member, *First International Workshop on the Design of Reliable Communication Networks DRCN 98*, Brugge, Belgium, May 17-20, 1998
85. Technical Program Committee Member, *2nd IEEE International Workshop on Broadband Switching Systems BSS '97*, Taipei, Taiwan, Dec. 3-4, 1997
86. Technical Program Committee Member, *IEEE ATM '97 Workshop*, Lisbon, Portugal, May 26-28, 1997
87. Technical Program Committee Member, *IEEE/SBT International Telecommunications Symposium ITS '96*, Acapulco, Mexico, October 1996
88. Program Committee Member, *CFIP '96 Colloque Francophone sur l'Ingénierie des Protocoles*, Rabat, Morocco, October 1996
89. Technical Program Committee Member, *IEEE ATM '96 Workshop*, San Francisco, August 25-27, 1996
90. Scientific Committee Member, *1996 EUNICE Summer School on Telecommunications Services*, Lausanne, Switzerland, September 1996

91. Technical Program Committee of the *IEEE INFOCOM '96*, San Francisco, Calif., USA, March 1996
 92. Technical Program Committee of the *IEEE ATM Workshop '95*, Washington, D.C., USA, Oct. 1995
 93. Program Committee Member of the *IEEE Information Theory Workshop, ITW '95*, Rydzyna, Poland, June 1995
 94. Program Committee Member of the *Workshop on High-Speed Network Computing HiNet '95*, Santa Barbara, California, USA, April 1995
 95. Program Committee Member of the *First EUNICE Tutorials on Evolution Towards High Speed Networks*, Brest, France, Sept. 5-6, 1994 (EUNICE: the European Network of Universities and Companies in Information and Communication Technologies).
 96. TPC member of *Krajowe Sympozjum Telekomunikacji [National Telecommunications Symposium]* (1989 – 2019)
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