

Curriculum Vitae

Prof. Dr.-Ing. Jörg Ott

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Employment

Since 08/2015 Professor (chair) for Connected Mobility
Technische Universität München
Faculty of Informatics
Research Interests: Mobile opportunistic networking and computing
Network architecture
New mobile application and service paradigms
(Mobile) Internet measurements and analysis
Mobility and user activity modeling
Privacy-preserving networked systems and services

Since 08/2015 Adjunct Professor for Networking Technology, Aalto University

03/2005 – 07/2015 Professor for Networking Technology (Protocols, Services, and Software)
Aalto University, School of Electrical Engineering (ELEC), Department of Communications and Networking (Comnet).
Vice chair for research at Comnet, 2011 – 2015
Co-director of the Future Internet Graduate School (FIGS), 2011 – 2013
School-level tenure track committee member, 2011 – 2015
Member of the Degree Programme Committee for Information and Communications Technology, 2014 – 2015
Research interests: Future network and protocol architectures including information-centric networking, delay-tolerant networking, and mobile opportunistic networking and computing; robust and adaptive multimedia protocols and services; transport protocols and resource management; Internet measurements and user/application modeling; censorship-resistant networking

- 06/1997 – 02/2005 Assistant Professor, University of Bremen
Faculty 3: Mathematics and Computer Science
Research Group for Computer Networks
Research interests: transport and control protocols as well as system architectures for IP-based multimedia communications, particularly standard-based (SIP, H.323) IP telephony; for multicast-based content distribution; and for Internet services in networks with intermittent connectivity.
- 02/1997 – 06/1997 Research position, TELES AG
Standardization activities in the ITU-T and the IETF in the areas of IP telephony and teleconferencing and related product concepts.
- 02/1992 – 02/1997 Researcher with teaching responsibilities, TU Berlin
Department for Computer Sciences, Research Group for Communication and Operating Systems
Research interests: reliable group communication, multipoint teleconferencing, T.120 data conferencing, and H.323-based IP telephony.
Industry cooperation as an advisor with TELES AG in international standardization (ITU-T, IETF) as well as in European research projects of the RACE programme.
- 10/1989 – 02/1992 Student employee, later project manager, TELES AG
Work on video conferencing and application sharing (1990–92), project management for PC-based teleconferencing systems starting in Summer 1991.

Entrepreneurship

- Since 04/2014 Co-founder of Nemu Dialogue Systems Oy
Cloud-based performance evaluation for web-based real-time communication (RTCweb). We provide an API and a backend cloud service (callstats.io) to businesses that offer web-based conferencing as a service. Our service monitors call establishment and call quality performance and offers feedback to the operators via dashboard and real-time analytics.
- Since 09/2013 Co-founder of Spacetime Networks Oy
Protocol and system design for robust communication systems for deployment in challenging (industrial) environments where infrastructure-based networking is infeasible or suboptimal or where device-to-device communication can complement wireless network infrastructure.

- 08/2007 – 07/2011 Co-founder of Lysatiq GmbH
Scientific advisor on protocol and system design, strategic development, and selected project acquisition in the areas of disconnection-tolerant and efficient mobile and satellite communications.
- 01/2004 – 12/2007 Scientific advisor, Tellitec GmbH
- 02/1998 – 12/2003 Co-founder and Co-CEO, Telligence Kommunikationstechnik GmbH
Protocol and system design as well as project acquisition and implementation in the areas of IP-multicast-based content distribution, performance enhancing proxies for Internet access via satellite, and multicast-based video-on-demand.
- Since 1997 Freelance activities
Scientific advisor for different industry customers; seminars/workshops and conference tutorials on multicast and (SIP-based) multimedia communications in IP networks as well as IP telephony since 1997; expert advisor on patents.

Research Visits

- 04/2014 – 07/2014 EURECOM, Mobile Communications department, Sophia Antipolis (France)
Host: Prof. Thrasyvoulos Spyropoulos
- 09/2013 – 11/2013 University of Cambridge (UK), Computer Laboratory
Hosts: Prof. Jon Crowcroft, Prof. Cecilia Mascolo

Education

- 1992 – 1997 Doctor in Engineering (Dr.-Ing.), Technische Universität Berlin
(*summa cum laude*)
Dissertation on distributed applications and data communications in multimedia teleconferences entitled: A Multipoint Data Communication Infrastructure for Standards-based Teleconferencing Systems
Special award in 1997 by Alcatel SEL *Stiftung für Kommunikationsforschung*.
IKV award 1998 “Best dissertation of the year 1997” of the Institute for Communication and Software Technology in the Department for Computer Science at TU Berlin.

- 1991 – 1995 Diploma in Industrial Engineering, Technische Fachhochschule Berlin
(passed with distinction)
Diploma thesis in management investigating technical and economical aspects of deploying telecooperation technologies in enterprises.
“*Capital*” promotion award (Förderpreis) 1995 on the subject “How multimedia and telecommunications will change the world of work” (2nd price).
- 1988 – 1991 Diploma in Computer Sciences, Technische Universität Berlin
Focus on communications and operating systems, diploma thesis on group cooperation and media stream control in video conferencing systems.
Erwin-Stephan award of TU Berlin in 1992 for excellent studies and a short study period.

Professional activities

Administrative services

- Tenure track committee, School of Electrical Engineering, Aalto University (03/2011 – 07/2015)
- Member of the Degree Programme Committee for Information and Communications Technology since 01/2014
- Vice chair for research at the Department of Communications and Networking (since 2011)
- Co-director, Future Internet Graduate School of the Academy of Finland (2011 – 2013)

Community Services

- Member of the IEEE Internet Award Committee, since July 2015.
- Treasurer (elected) of the ACM Special Interest Group on Data Communication (SIGCOMM), since July 2013.
- Vice chair (elected) of the IEEE Communication Society (Comsoc) Technical Committee on Computer Communications (TCCC), since 2012.
- Member of the IEEE Computer Society Technical Committee on Computer Communications (TCCC) Executive Committee (ExCom) 2006 – 2012.
- Conference Coordinator for the IEEE Communication Society (Comsoc) Technical Committee on Computer Communications (TCCC) 2009 – 2012.
- Member of the Award Committee of the Applied Network Research Prize (ANRP) of the Internet Research Task Force, since 2011.
- Member of the editorial board of the Elsevier Journal on Computer Communication (COMCOM) since November 2008.
- Co-editor of the Elsevier Journal on Computer Communications (COMCOM) Special Issue on Opportunistic Networking, 2013/2014.

Co-editor of the IEEE Communication Magazine Special Issue on Web-based Communications, 2012/2013.

Co-editor of the Elsevier Journal on Computer Communications (COMCOM) Special Issue on Delay-tolerant Networking, 2008/2009.

Co-editor of the Elsevier Journal on Computer Communications (COMCOM) Special Issue on WoWMoM 2009.

Steering committee member of the ACM Conference on Information-Centric Networking, since 2013.

Steering committee member of the IEEE Global Internet Symposium, since 2013.

Steering committee member of the ACM Conference on Principles, Systems and Applications of IP Telecommunications (IPTComm), 2011 – 2014.

Steering committee member of the ACM International Workshop on Mobility in the Evolving Internet Architecture (MobiArch), since 2009.

Steering committee member of the ACM Workshop on Challenged Networks (CHANTS), since 2006.

Workshop and Conference Organization

TPC co-chair, IFIP NETWORKING, 2016.

Special session co-chair, IEEE Annual Consumer Communications & Networking Conference (CCNC), 2016.

Co-organizer of the Dagstuhl Seminar on Global Measurement Practice and Experience (16012), 2016.

Co-chair of the ACM MobiSys Workshop on Do-In-Yourself Networking, an Interdisciplinary Approach, 2015.

Co-organizer of the Dagstuhl seminar on Do-It-Yourself Networking (14042), 2014.

Workshop co-chair of IEEE International Conference on Network Protocols (ICNP), 2013.

Member of the Award Committee for GlobeCom, 2013.

Lead organizer of the Dagstuhl Seminar on a Global Measurement Framework (13472), 2013.

General Co-Chair of the ACM SIGCOMM conference, 2012.

Co-chair of the IEEE Global Internet Symposium (GI), 2012.

General co-chair, ACM Conference on Principles, Systems and Applications of IP Telecommunications (IPTComm), 2011.

Lead organizer of the Dagstuhl Seminar on the Impact of Human Mobility on Communications (10403), 2010.

Co-organizer of the Dagstuhl Seminar on Inter-Vehicular Communication (10402), 2010.

General co-chair, 7th IEEE Annual Consumer Communications & Networking Conference (CCNC), 2010.

Lead organizer of the Dagstuhl Seminar on Disruption-tolerant Networking I and II, 2005, 2009.

TPC Co-chair IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM) 2009.

Work-in-Progress co-chair of the Annual IEEE International Conference on Pervasive Computing and Communications (PerCom), 2010.

TPC Track co-chair for Multimedia and QoS of the 18th International Conference on Computer Communications and Networks (ICCCN), 2009.

Co-chair ACM MobiSys International Workshop on Mobility in the Evolving Internet Architecture (MobiArch) 2009.

TPC co-chair IEEE PIMRC workshop on VoIP Technology: Research and Standards for reliable applications, 2008.

Panel chair, ACM SIGCOMM MobiArch workshop, 2008.

Panel chair, Uppside SIP industry conference, 2008.

Co-chair ACM MobiCom Workshop on Challenged Networks (CHANTS), 2007.

Demo co-chair IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks WoWMoM, 2007.

Panel chair IEEE WoWMoM workshop on Autonomic and Opportunistic Communications (AOC), 2007.

Host of an ITU-T SG16 Joint Rapporteur's Meeting (Berlin), 1999.

TPC Memberships

IEEE INFOCOM 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016.

ACM Multimedia Systems Conference (MMSys), 2014, 2015, 2016.

Annual IEEE International Conference on Pervasive Computing and Communications (PerCom), 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016.

IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM), 2007 (industry track), 2008, 2009 (chair), 2010, 2011, 2012, 2013, 2014, 2015, 2016.

ACM Multimedia, 2014, 2015.

IEEE International Conference on Sensing, Communication, and Networking (SECON), 2015.

ACM Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV), 2014.

IFIP/TC6 NETWORKING 2012, 2013, 2014, 2015, 2016 (TPC co-chair).

ACM CoNEXT Capacity Sharing Workshop (CSWS), 2012, 2014, 2015.

Global Internet Symposium (GI), 2010, 2011, 2012 (chair), 2013, 2014, 2015.

ACM International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous), 2014.

ACM Conference on Information-Centric Networking (ICN), 2014.

IEEE International Conference on Distributed Computing Systems (ICDCS), 2014.

International Conference on Communication Systems and Networks (COMSNETS), 2011, 2012, 2013, 2014.

ACM MobiHoc Workshop on Emerging Name-Oriented Mobile Networking Design - Architecture, Algorithms, and Applications (NOM), 2012, 2014.

Extreme Workshop on Communication (ExtremeCom), 2010, 2011, 2012, 2013, 2014.

Workshop on Distributed Cloud Computing (DCC), 2013.

IEEE INFOCOM Workshop on Emerging Design Choices in Name-Oriented Networking (NOMEN), 2012, 2013.

ACM SIGCOMM Workshop on Information-Centric Networking (ICN), 2011, 2012, 2013.

ACM MobiCom Workshop on Lowest Cost Denominator Networks (LCDnet), 2013.

5th International Workshop on Architectures, Services and Applications for the Next Generation Internet (WASA-NGI-V), 2012.

International Conference on Principles, Systems and Applications of IP Telecommunications (IPTComm), 2010, 2011 (chair), 2013.

International Conference on Mobile and Ubiquitous Multimedia (MUM), 2010, 2012.

International Conference on Wireless On-demand Network Systems and Services (WONS), 2010, 2011, 2012, 2013, 2014.

IEEE International Conference on Communications (ICC), 2009, 2010, 2011, 2012.

ACM SIGCOMM/SIGMOBILE Workshop on Challenged Networks (CHANTS), 2006, 2007 (chair), 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015.

IEEE Workshop on Autonomic and Opportunistic Communications (AOC), 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2015.

ACM/IEEE International Workshop on Mobility in the Evolving Internet Architecture (MobiArch), 2006, 2007, 2008, 2009 (chair), 2010, 2012.

ACM/SIGMOBILE International Workshop on Mobile Opportunistic Networking (MobiOpp), 2007, 2010, 2012.

IEEE GLOBECOM, Next-Generation Networking & Internet Symposium, 2009, 2010, 2011, 2012, 2013.

IFIP 9th International Conference on Wired/Wireless Communications (WWIC), 2011.

International Teletraffic Congress (ITC), 2010, 2013.

ACM Multimedia Workshop on Mobile Video Delivery (MoViD), 2010, 2012, 2013.

ACM SIGSAC Conference on Wireless Network Security (WiSec), 2011.

International Conference on Energy-Efficient Computing and Networking (eEnergy), 2010.

ICCCN Workshop on Multimedia Computing and Communications, 2010.

IEEE GLOBECOM, Communications Software, Services and Multimedia Applications Symposium, 2009, 2010.

IEEE International Workshop on the Network of the Future (FutureNet), 2009, 2010.

International Conference on Broadband Communications, Networks, and Systems (BROAD-NETS), 2009.

IEEE Wireless Communications and Networking Conference (WCNC), 2009.

IEEE International Conference on Advanced Information Networking and Applications (AINA), 2009.

International Workshop on Protocols for Future, Large-Scale and Diverse Network Transports (PFLDNet), 2009, 2010.

SimuTools International Workshop on OmNet++, 2009.

IEEE International Workshop on Opportunistic Networking (WON), 2008, 2009.

Asian Internet Engineering Conference (AINTEC) in cooperation with ACM SIGCOMM, 2008, 2009, 2010.

IEEE International Conference on Embedded and Ubiquitous Computing (EUC), 2010.

IEEE International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC), 2008.

IST Conference on the Future of the Internet of Services (ServiceWave), 2008.

EURO-NGI Conference on Next Generation Internetworks, 2008.

International Conference on Telecommunications (ICT), 2008, 2009.

Workshop on Wireless Broadband Access for Communities and Rural Developing Regions (WIRELESS4D), 2008.

International Conference on Mobile Technology, Applications, and Systems (Mobility), 2007, 2008, 2009.

ACM International Conference on emerging Networking EXperiments and Technologies (CoNEXT), 2007.

IEEE Vehicular Technology Conference (VTC), Fall 2005, Fall 2007, Fall 2008, Spring 2009.

ACM SIGMOBILE International Workshop on Multi-hop Ad Hoc Networks: from Theory to Reality (RealMAN), 2006.

ICST Workshop on Networking in Public Transport (WNEPT), 2006.

Third Annual VoIP Security Workshop 2006.

IP Telephony Workshop (IPTTEL) 2000, 2001.

Upperside SIP industry conferences 2000 – 2009.

Paper reviews for different journals and magazines, including:

- ACM/IEEE Transactions on Networking; IEEE JSAC; IEEE Networks; IEEE Transactions on Distributed Systems; IEEE Transactions on Mobile Computing; IEEE Transactions on Communications; IEEE Communications Magazine; IEEE Communication Letters
- ACM Transactions on Multimedia; ACM Transactions on Multimedia Computing, Communications, and Applications
- Elsevier Journal of Computer Communications; Ad-hoc Networks; Personal and Mobile Communications; and Communication Networks.

Memberships

Institute of Electrical and Electronics Engineers (IEEE) since 1994.
(Communication, Computer, Vehicular Technology, and Broadcasting Societies)
Association for Computing Machinery (ACM) since 1996.
(Special Interest Groups: SIGCOMM, SIGMOBILE, SIGMM)
Gesellschaft für Informatik (GI) since 2003.

International Standardization

Since 1993	<i>Internet Engineering Task Force (IETF)</i> , focus on real-time transport, multimedia session control, and multipoint communications.
Since 2011	<i>Co-chair</i> of the Delay-tolerant Networking Research Group (DTNRG).
1997 – 2009	<i>Co-chair</i> of the <i>Multiparty Multimedia Session Control (MMUSIC)</i> working group in the IETF: Development of control protocols for multimedia conferencing and media streaming
1999 – 2002	<i>Co-chair</i> of the <i>Session Initiation Protocol (SIP)</i> working group in the IETF: Development of SIP and related protocols for IP telephony and multimedia conferencing.
1995 – 2000	H.323 working groups (Q13/16 and Q14/16) in the ITU-T standardizing IP telephony and IP-based multimedia conferences; core contributor to the H.323 series of Recommendations from the very beginning.
1994 – 1998	T.120 working group (Q3/16) in the ITU-T standardizing <i>Data Protocols for Multimedia Conferencing</i>
November 2008	<i>IMTC Pioneer and Major Contributor Award</i> (group award) for key contributions to the development of H.323.