

Professional CV - Kai Jakobs



Address

RWTH Aachen
Computer Science Department
Informatik 4
Ahornstr. 55
D-52074 Aachen
Germany
Phone: +49-241-80-21405
Fax: +49-241-80-22220.
Kai.Jakobs@cs.rwth-aachen.de
http://www-i4.informatik.rwth-aachen.de/~jakobs/kai/kai_home.html

Kai joined the Aachen University's (RWTH) Computer Science Department as a member of technical staff in 1985. Since 1987, he has been Head of Technical Staff, Chair of Informatik 4 (Communication & Distributed Systems).

Earlier research interests and activities concentrated broadly on the user-friendliness of communication networks. This included, for instance, support of group communication, user-friendly naming, directory services, and services to be provided by the underlying infrastructure. More recently, interest shifted to various aspects of standards and the standardisation process, focussing on the individual's role in standards setting, and on the pros and cons of user participation in this process. In addition, he has still been working on a number of projects on various aspects of information networks.

Kai is (co)-author/editor of a text book on data communication and, more recently, nine books on standardisation processes in IT. More than 170 of his papers have been published in conference proceedings, books, and journals. He has been on the programme committees of numerous international conferences, and has also served as an external expert on evaluation panels of various European R&D programmes, on both technical and socio-economic issues. He holds a PhD in Computer Science from the University of Edinburgh.

Employment

- July 1987 - Head of Technical Staff, Computer Science Department, Informatik IV, Aachen University (RWTH)
Responsibilities include project work and management and self-conducted and project-related research.
- May 1985 - June 1987 Member of Technical Staff, Computer Science Department, Aachen University (RWTH)
Engaged in various R&D projects, plus self-conducted research. Other responsibilities included network administration.

Education

- 1994 - 1998 PhD, Computer Science
University of Edinburgh, Scotland
- 1975 - 1985 Electrical Engineering
Technical University of Aachen, Germany
- 1967 - 1975 Highers Certificate
City Grammar School, Porz, Germany

Nationality

German

Professional Activities

- Vice President of EURAS, the ‘European Academy for Standardisation’,
- Editor-in-Chief and founder of the ‘International Journal of IT Standards & Standardization Research’,
- Editor-in-Chief and founder of the book series on ‘Advances in IT Standards & Standardization Research’,
- founder of the SIIT conference series (‘Standardisation and Innovation in IT’), bi-annual, since 1999,
- (co/guest)-editor of special issues of
 - IEEE Communications Magazine on ‘Innovation in Telecommunications and IT’, April 2001,
 - Knowledge, Technology and Policy on ‘Information Technology - Standards, Standardisation and Policies’, Summer 2002,
 - ‘Management Information Systems Quarterly (MISQ) on ‘Standard Making: A Critical Research Frontier for Information Systems’, to appear
- editor of ‘IT Standards and Standardisation: A Global Perspective’, Idea Group Publishing, 2000,
- editor of ‘Advanced Topics in IT Standards and Standardisation Research’, Idea Group Publishing, 2006,
- editor of the EURAS proceedings 2003 & co-editor for 2004, 2005, 2006,
- co-editor of the Proceedings of the 1st and the 3rd IEEE Conference on Standardisation and Innovation in Information Technology, Aachen, September 1999 and Delft, October 2003,
- author of ‘User Participation in Standardisation Processes - Impact, Problems and Benefits’, Vieweg Publishers, 2000,
- co-author of ‘Computer Communication - OSI Reference Model, Services and Protocols’, a textbook on data communications (in German), 1993,
- (co-)author of 170+ technical papers, published in conference proceedings, books, and journals,
- member, Editorial Advisory Board & Review Board, Business Process Management Journal,
- member, Editorial Review Board, Information Resources Management Journal,
- member, Editorial Review Board, Informing Science,
- member of the Idea Group Inc. Editorial Advisory Review Board
- Associate Editor for the MIS Quarterly Special Issue ‘Standard Making’,
- organised
 - a Minitrack on ‘Standardization in Information Technology’ at the 34th ‘Hawaii International Conference on System Sciences’, 2001,
 - a Technical Track on ‘Standardisation in IT’ at the ‘ACM Symposium on Applied Computing’, 2002,
 - a Technical Track on ‘E-business standards’, at the Concurrent Engineering 2003 conference,
 - three sessions on various topics related to IT standards and standardisation at both the 2004 and 2006 conferences of 4S/EASST (European Association for the Study of Science and Technology),
 - a Workshop on ‘IT Standards – das Fundament der Informationsgesellschaft’ at the 2004 annual conference of the German ‘Gesellschaft für Informatik’ (Computer Science Association),
 - a Workshop on ‘Standards and Standardisation for e-business’ at the eChallenges 2004 conference,
 - a Workshop on ‘Interoperability Standards – Implementation, Dynamics, and Impact’ at the Interop/ESA conference 2005,
 - Workshops on ‘Opening up the Barrier Between Standardisation and Research’ and ‘Standards research – results and their deployment’ at the EASST 2006 conference,
 - a Workshop on ‘Towards Interoperability: Studying Standardisation for ICT and e-Business’ at the eChallenges 2006 conference.
- programme committee member of the IEEE EntNet Conference ‘98, ACM SIGCPR ‘98 (Computer Personnel Research), IEEE Symposium on Computers and Communications (ISCC 2001), Int. Conf. on Computer Communications and Networks (ICCCN; since 2000); IEEE Conf. on Standardisation and Innovation in Information Technology (SIIT 1999/2001/03/05), Local Computer Networks 2001, Information Resource Management Association (IRMA; since 2002), International Association for Development of the Information Society (IADIS; since 2002), IFIP WG 8.6 Conference 2003, Concurrent Engineering 2003, Academy of Management (AoM; since 2004), MISQ Workshop on Standards Making, WEBIST 2005/06/07, Internet and Multimedia Systems and Applications 2006, 2007, Int. Conf. on Digital Telecommunications 2006, 2007.

Involvement in EU R&D Activities

- Evaluator for
 - CRAFT (Co-operative research with SMEs)
 - ESPRIT II (Information Technology)
 - INTAS (scientific co-operation)
 - IST (Information Society Technologies)
 - TAP (Telematics Applications)
 - TEN-Telecom.(Trans-European Networks)
- Member of the 1999 senior expert group on IST evaluation: Assessment of the coverage of socio-economic aspects.
- Organised the session on ‘The role of research in developing future ICT standards’ at the IST 2002 conference.
- Won DG Enterprise’s Grant Contracts
 - SUB/99/502286/AIXCOM ‘Conference on Standards and Innovation in Information Technology Area’ (1999)
 - No 20010674, ‘Helping SDOs to Reach Users’ (2002).
- RWTH project partner manager of
 - the RACE II project ‘EuroBridge’ (R 2008),
 - the FP5 IST Project ‘ParcelCall’ (IST-1999-10700),
 - the FP 6 IST project NO-REST (Networked Organisations - REsearch into STandards and Standardisation; FP6 507626),
 - the FP 6 ‘Policy Orientated Research’ project INTEREST (INTEgrating REsearch and STandardisation; FP6 – 503594).

List of Publications (excerpt)

Jakobs, K.: ESOs, Open Standards, and New Deliverables. To be published in: Bolin, S. (ed): The Standards Edge: Unifier or Divider? The Bolin Group, 2006.

Jakobs, K.: ICT Standards Research – Quo Vadis? (invited paper). To be published in: Homo Oeconomicus 23(1), pp. 1–30, 2006.

Jakobs, K.: Shaping User-side Innovation Through Standardisation – The Example of ICT. Technological Forecasting and Social Change, vol. 73, no. 1, 2006, Elsevier.

Jakobs, K. (ed): Advanced Topics in IT Standards & Standardisation Research. ISBN 1-59140-938-1. Idea Group Publishing, 2006.

Gerst, M.; Jakobs, K.: e-Business standardisation in the Automotive Industry – Two Approaches Towards the Integration of SMEs. Proceedings CEC 2005.

Jakobs, K.: The Role of the ‘Third Estate’ in ICT Standardisation. To be published in: The Standards Edge: Future Generation, The Bolin Group, 2005.

Jakobs, K.: The Third Estate – The Role of SMEs in ICT Standards Setting. Proc. eChallenges Conference, Vienna, 2004.

Jakobs, K.: On Standardisation and Technology Assessment in IT. Proc. IAMOT ‘03, International Association for Management of Technology, 2003.

Jakobs, K.: A Proposal for an Alternative Standards Setting Process. IEEE Communications Magazine, vol. 40, no. 7, July 2002.

Jakobs, K.: IT Norm sand Standards – The Basis of the Information Society (IT Normen und Standards – Grundlage der Informationsgesellschaft; in German). Proc. ‘The Innovative Society’ (Die Innovative Gesellschaft), Berlin, 2002.

Jakobs, K.; Procter, R.; Williams, R.: The Making of Standards. IEEE Communications Magazine, vol. 39, no. 4, 2001.

Jakobs, K.; Williams, R.; Graham, I.; Wallbaum, M.: Designing an Open Track & Trace System - The Socio-Economic Context. Proc. 8th World Congress on Intelligent Transport Systems, Sydney, 2001.

Jakobs, K. (ed): IT Standards and Standardisation: A Global Perspective. Idea Group Publishing, ISBN 1-878289-70-5, 2000.

Jakobs, K.: Some Aspects of the Economics of Standardisation - What a Non-Economist Might Find Interesting. Teletraffic Engineering in a Competitive World, Proc. ITC-16, Elsevier Science, 1999.

Jakobs, K.; Procter, R.; Williams, R.: User Participation in Standards Setting -- The Panacea?. ACM Standard View, vol. 7, no. 3, 1999.

Jakobs, K.; Williams, R. (eds): Standardisation and Innovation in Information Technology. Proc. 1st Int. Conf. on Standardisation and Innovation in Information Technology, SIIT ‘99, Aachen, IEEE, ISBN 0-7803-9935-8, 1999.

- Jakobs, K.: Standardisation Processes in IT - Impact, Problems and Benefits of User Participation . Vieweg Publishers, ISBN 3-528-05689-4, 2000 , 1999.
- Jakobs, K.; Procter, R.; Williams, R.: Telecommunication Standardisation - Do We Really Need the User?. Proc. 6th Int. Conf. on Telecommunications, ICT '98, IEE Press, 1998.
- Jakobs, K.; Procter, R.; Williams, R.: Standardisation, Innovation and Implementation of Information Technology. Proc. IFIP TC-9 Fifth World Conference on Human Choice and Computers, HCC-5, Geneva, 1998.
- Jakobs, K.: Integrated Broadband Communications. Encyclopedia of Computer Science and Technology . Marcel Dekker Inc., New York, 1997.
- Jakobs, K.; Procter, R.; Williams, R.: Users and Standardisation -- Worlds Apart? The Example of Electronic Mail. ACM Standard View, vol. 4, no. 4, 1996.
- Jakobs, K.: Future (Data) Communication Networks - The Challenge to (Public) Service Providers. Computer Communications, vol. 18, no. 11, Butterworth-Heinemann, 1995.
- Jakobs, K.; Lenssen, K.: Successful Applications of Electronic Messaging in International Organizations - Strategies, Results, Experiences. Report of the European Electronic Messaging Association, 1994.
- Jakobs, K.; Spaniol, O.: Rechnerkommunikation - OSI-Referenzmodell, Dienste und Protokolle (Computer Communication - OSI Reference Model, Services and Protocols). VDI Publishers, ISBN 3-18-401207-7, 1993.
- Jakobs, K. et al.: EuroBridge: Communication Services for Multimedia Applications. IEE Electronics and Communication Engineering Journal, Feb. 1993
- Heinrichs, B.; Jakobs, K.; Carone, A.: High Performance Transfer Services to Support Multi-Media Group Communication. Computer Communications, Butterworth-Heinemann, vol 16, no. 9, 1993.
- Jakobs, K.: OSI Addressing Strategies. in: W. Stallings (ed.), Computer Communications - Architectures, Protocols and Standards, IEEE Computer Society Press, 1992.
- Jakobs, K., Quernheim, U.: Using Broadcast Networks for Electronic Mail Applications. Int. Journal on Space Communications, vol. 10, nos. 2,3, 1992.
- Jakobs, K.: Beyond the Interface - Group Communication Services Supporting CSCW. Proc. Conf. on Support Functionality in the Office Environment, North Holland 1991.
- Jakobs, K.: ISO's Directory Proposal - Evolution, Current Status and Future Problems. Canadian Journal of Information Sciences, vol. 14, No. 1, 1989.
- Jakobs, K.: OSI - An Appropriate Basis for Group Communication?. Proc. ICC '89 - International Conference on Communication, IEEE Press 1989.