



# Gabriele Kotsis

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## *curriculum vitae*

### Affiliation

University Johannes Kepler University Linz  
Institute Department of Telecooperation  
Position Full Professor, Head of Department  
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WWW <https://www.jku.at/institut-fuer-telekooperation/ueber-uns/team/gabriele-kotsis/>

### Personal Data

Full Name Univ.-Prof. Mag. Dr. Gabriele Kotsis  
Home Michael Hainisch Strasse 2/12, 4040 Linz, Austria  
Mobile +43 664 310 9533  
Date of Birth October 29, 1967 in Vienna, Austria  
Citizenship Austria  
Gender Female

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## Current and Past Positions

- 2002–present **Full Professor**, *Johannes Kepler University Linz*, Austria, Department of Telecooperation (Sabbatical October 2015 - February 2016)  
Job Profile:
- Computer Science
  - Head of Department
  - Definition of the departments research strategy and direction, acquisition of third party funding, research project management and administration
  - Teaching of lectures and seminars in the Bachelor and Master programmes of Computer Science and Business Informatics as well as elective computer science courses for related study programmes, supervision of Bachelor, Master and PhD students, involvement in international study and exchange programmes
  - University administration including management of the department, recruitment of administrative, technical and scientific staff, active membership in academic committees
- 2007–2015 **Vice Rector for Research**, *Johannes Kepler University Linz*, Austria  
Job Profile:
- Development of R&D strategies and policies within the University of Linz including the shaping of the University's research profile, guidelines for third party funding, guidelines and support for project acquisition and management
  - Gender mainstreaming
  - Strategic coordination and interaction with national and international governmental organisations and funding bodies, including e.g. ERA-Dialog with FFG or Austrian ERC Monitoring Council
  - Representation of the University of Linz in national and international scientific bodies
  - Establishment of strategic research cooperations with national and international universities and non-university organisations (i.e. governmental institutions, partners from various industries, business partners, industrial organisations)
  - Exploitation and dissemination of results, including research marketing, research communication, spin-offs and IPR management
  - Negotiations with the Federal Ministry for Science, Research and Economy for the three year university budget (research share)
  - Negotiations with the County of Upper Austria with respect to research funding activities
- 2002 **Visiting Professor**, *Johannes Kepler University*, Linz (Austria), Department of Telecooperation
- 2002 **Visiting Professor**, *Copenhagen Business School*, Copenhagen (Denmark), Institute for Informatics
- Computer Science, Business Informatics
  - Responsibilities in research and teaching
- 2001–2002 **Visiting Professor**, *Vienna University of Economics and Business*, Vienna (Austria), Department of Information Systems
- Computer Science, Business Informatics
  - Responsibilities in research, teaching and administration
- 1991–2001 **University Assistant, Assistant Professor**, *University of Vienna*, Vienna (Austria), Institut für Angewandte Informatik und Informationssysteme, Abteilung Advanced Computer Engineering (formerly Institut für Statistik und Informatik, Abt. Angewandte Informatik)
- Computer Science, Business Informatics
  - Responsibilities in research, teaching and administration
- 1989–1993 **Part time working as software trainer**, *SPC Computer-Schulungs Ges.m.b.H.*, Vienna, Austria
- 1984–1989 **Summer internships**, *Österreichisches Statistisches Zentralamt (Betriebskartei)*, *Österreichische Länderbank, Filiale Rennweg*, Vienna, Austria

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## Education and Training

- 2000 **Habilitation**, *University of Vienna*, Vienna, Austria, Venia Docendi in Computer Science
- 1998 **Seminar für Führungskräfte (1 week)**, *MLP, SAP*, Heidelberg, Germany
- 1995 **PhD Graduation**, *University of Vienna*, Dr.rer.soc.oec, passed with distinction
- 1994–1995 **Universitätslehrgang zur Didaktischen Weiterbildung für Hochschullehrer**, *University of Vienna*, Austria
- 1992–1995 **Doctoral Program in Social Sciences and Economics**, *University of Vienna*, Vienna, Austria
- 1991 **Master Graduation**, *Business Informatics*, Mag.rer.soc.oec, passed with distinction
- 1986–1991 **Master Program in Business Informatics**, *University of Vienna*, Vienna, Austria
- 1986 **Matura**, *BRG II*, Vienna, Austria, passed with distinction
- 1978–1986 **Secondary School**, *Bundesgymnasium (realistischer Zweig)*, Zirkusgasse 48, 1020 Vienna, Austria
- 1974–1978 **Primary School**, *Volksschule*, Czerninplatz 3, 1020 Vienna, Austria

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## Language Skills

- German mother tongue
- English fluent in speaking and writing
- Latin basic in reading

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## Scientific Awards and Honors

- 2016 **ACM Recognition of Service Award**, in appreciation of contributions to ACM. Chair of *WomEncourage 2016*
- 2016 **IFIP EGOV-ePart 2016 Meritorious Paper Award**, for the paper “*Making Computers Understand Coalition and Opposition in Parliamentary Democracy*”
- 2015 **Emerald Highly Commended Paper Award**, *International Journal of Pervasive Computing and Communications*  
<http://www.emeraldgrouppublishing.com/authors/literati/awards.htm?year=2015&journal=ijpcc>
- 2014 **ACM Distinguished Scientist**  
<http://www.acm.org/press-room/news-releases/2014/distinguished-2014>
- 2013 **iiWAS Best Short Paper Award**  
<http://www.iiwas.org/conferences/iiwas2013/bpa.php>
- 2009 **iiWAS Decennial Award**, in recognition of her outstanding scientific, didactic and organisational contributions to the @WAS organisation and the iiWAS and MoMM conferences series  
<http://www.iiwas.org/conferences/iiwas2009/award.php>
- 09/2006 **Expertin des Monats**, *Bundesministerium für Verkehr, Innovation und Technologie*  
<http://www.femtech.at>
- 2000 **OPNET / Mil3 Distinguished Paper Award**, *International Conference on Application and Network Performance*
- 1996 **Heinz Zemanek-Preis**, *Austrian Computer Society Award for outstanding scientific publications in computer science*  
<http://www.ocg.at/hall-fame>
- 1992 **OCG-Förderpreis**, *Austrian Computer Society Award for Diploma Theses*  
<http://www.ocg.at/hall-fame>

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## Scientific Community Services and Administration

### Memberships in Professional Societies

Member of the ACM

Member of the Austrian Computer Society (OCG)

Member of the Austrian Scientific Society for Production (ÖWGP)

### Memberships in Scientific Boards

- 2022–2024 ACM Past President
- 2020–2022 ACM President
- 2016–2020 ACM Member at large
- 2019–2025 COST Scientific Committee representative for Austria
- 2023–present Member of the Senate of the Christian Doppler Society (CDG)
- 2022–present Member of the International Advisory Board of the University of Grenoble Alpes
- 2017–present Member and Chair of the Scientific Advisory Board of the Internetoffensive Oesterreich
- 2020–present National Coordinator for Austria in ASEA-UNINET
  - 2019–2022 President of ASEA-UNINET
  - 2017–2019 Vice-President of ASEA-UNINET
  - 2016–2019 Representative of JKU in the ASEA-Uninet Academic Network
  - 2016–2023 Member of the Unirat at Alpen Adria Universität Klagenfurt
- 2016–present Member of the OCG Book Series Committee
- 2014–present Member and Chair of the Master Thesis Award of the Austrian Computer Society (OCG Foerderpreis)
- 2002–present Member of the OCG Vorstand
- 2001–present Member of the OCG Working Group Pro-IT
- 2000–present Member of the OCG Vostand
  - 2010–2021 Member of the Supervisory Board of Tabakfabrik Linz, <https://tabakfabrik-linz.at/en/information/organization/>
  - 2012–2016 Chair of the Aktionsfeldkomitee Lebensmittel, OÖ2020
  - 2012–2016 Member of the RFTOOe Policy Committee
  - 2012–2015 Member and Chair of the Advisory Board for the Upper Austrian Research GmbH
  - 2009–2016 Member of the Upper Austrian Council for Research and Technology (RFTOOe)
  - 2009–2015 Member of the European Association of Rectors of Technical Universities
  - 2008–2016 Member of the ACM Europe Council
  - 2008–2016 Member and Chair of the Scientific Advisory Board of Research Studios Austria GmbH
  - 2007–2015 Member of Forum Forschung, Austrian Association of Universities, from 10/11 – 09/15 Chair
  - 2007–2015 Member of the FWF Delegates Assembly
  - 2007–2015 Member of the Advisory Board for the K-Wood Competence Center
  - 2007–2015 Member of the Advisory Board for the LCM GmbH
  - 2007–2010 Member of the Science and Research Council of Salzburg (Salzburger WFR)
    - 2006 Member of the FET/BTH Advisory Board on Pervasive Computing, EU-IST programme, <http://www.beyond-the-horizon.net/>
  - 2005–2006 Member of the Strategic Consulting Group, Austrian Ministry for Economy and Labour
  - 1991–2002 Member of the Austrian Center for Parallel Computing (ACPC)

### Selected Reviewing Activities and Editorial Boards

Evaluator and Expert Reviewer for proposals and projects in FP7 and HORIZON 2020 including

- ICT work programme 2014-2015 ICT 22.a Multimodal and natural computer interaction
- EuroCloud: Low-power servers for cloud data-centres ICT-2009.3.6 CP- STREP
- MB-net: A Network of Excellence on Mobile Business, IST-2001-39164
- PROMODAS: Professional Mobile Data Service, IST-2001-36025
- Whyless.com: Open platform for mobile and ubiquitous e-commerce, IST-2000-25197
- e-PARKING: User-friendly e-Commerce to Optimise Parking Space, IST-2000-25392
- MOTION: Mobile Teamwork Infrastructure for Organisations Networking, IST-1999-11400

Evaluator and Jury Member in national funding programmes and scientific award committees, including

- Habilitation Award in Medicine, County of Upper Austria (2014–2015)
- Kurt Zopf Foerderpreis, Univeresity of Salzburg (20012–2016)
- Multi-Platform Content Applications, eContent Austria (2010)
- ZIT-Call Innovative Services Vienna (2009–2010)
- JKU goes Gender Award (2008–2015),
- OCG Foerderpreis (since 2015 chair)
- Electronica (2007)
- tech2B award (2007–2008)
- Edison award (2013–2015)
- Impulsprogramm Kreativwirtschaft (2006–2008)
- Wolfgang von Kempelen Preis fuer Informatikgeschichte (2006)
- Constantinus Award (2005–2006)
- Oesterreichischer Multimedia Staatspreis (2004–2009)
- ARC Research Centers Forschungsfoerderpreis (2004–2005)

Reviewer and Editorial Board Member for Scientific Journals, including

- ACM TOMACS
- Computer Communications Journal
- Computer Networks Journal
- IEEE Communications Magazine
- IEEE Transactions on Software Engineering
- Journal of Computers and Artificial Intelligence
- Journal of Systems Architecture
- Journal of Mobile Multimedia
- Performance Evaluation

#### Selected Participation in Programme Committees and Conference Organisation

**AICCSA5**, *ACS/IEEE International Conference on Computer Systems and Applications*, PC Member

**CollabComp**, *IEEE international conference on Collaborative Computing*, PC Member

**CSEE**, *Workshop on Cooperative Support for Distributed Software Engineering Processes*, PC Member

**CTS**, *Collaborative Technologies and Systems Symposium*, PC Member

**DAPSYS**, *Int. Workshop on Distributed and Parallel Systems*, Program Co-Chair (1998 & 2000 with P. Kacsuk), PC Member

**delfi**, *e-Learning Fachtagung Informatik, TU Darmstadt*, PC Member

**DCCN**, *Distributed Computing and Computer Networks, Moscow*, PC Member

**didact**, *Women's IT Summer Studies, Salzburg, Austria*, Member of the Scientific Advisory Board (2003-2007)

**ECIS**, *European Conference on Information Systems, Track on Information Infrastructures*, PC Member

**EC-WEB**, *International Conference on Electronic Commerce and Web Technologies, within DEXA*, PC Member

**Euro-IMSA**, *European Conference on. Internet and Multimedia Systems and Applications, Innsbruck, Austria*, PC Member

**EURO/INFORMS**, *European Conference on Operational Research, Work Flow Management Cluster, Cluster Chair* (2003)

**Euro-PDS**, *Second European Conference on Parallel and Distributed Systems*, PC Member

**EuroPVM**, *European PVM Users' Group Meeting*, PC Member

**GI01**, *GI/OCG-Jahrestagung 2001, Workshop on Mobile internet based services and information logistics, Vienna, Austria*, Workshop Co-Chair (with Deiters et.al., 2001)

**GMW04**, *Jahrestagung der Gesellschaft für Medien in der Wissenschaft, Graz, Austria*, Member of the Scientific Advisory Board (2004)

**HICSS**, *Hawaiian International Conference on Computer Systems*, Minitrack Co-Coordinator (Distributed Virtual Reality Environments 1997 with G. Haring, Workflow Systems 1998 with C. Strauss), Advisory Board Member (Software Technology Track 1999)

**I2TS03**, *International Information Technology Symposium, Florianapolis, Brazil*, PC Member

**ICCC**, *International Conference on Computer Communication*, PC Member

**ICDCS**, *International Conference Distributed Computing Systems*, PC Member

**ICUFN**, *International Conference on Ubiquitous and Future Networks*, Organizing Chair 2016, Steering Committee 2017

**ICWN**, *Mobile Ad Hoc Networks and Applications, within International Conference on Wireless Networks*, PC Member

**IFIP/NPC**, *IFIP International Conference on Network and Parallel Computing*, PC Member

**INCOM**, *18th IFAC Symposium on Information Control Problems in Manufacturing 2024, Austria, Vienna*, PC Member

**iiWAS**, *International Conference on Information Integration and Web-based Applications and Services*, General Chair (2003-2009, 2015), Honorary Chair (since 2010)

**IoT2017**, *The 7th International Conference on the Internet of Things, October 22-25, 2017, Linz, Austria*, Workshop Chair, Treasurer

**IPDS**, *International Workshop on Distributed and Parallel Systems*, Program Committee Chair (2000), PC Member

**ISCV2020**, *The fourth International Conference on Intelligent Systems and Computer Vision, June 09-10-11, 2020, Fez, Morocco*, TPC Member

**MASCOTS**, *International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems*, Workshop Co-Chair (2002 with S. Turner), Symposium Chair (2003), Program Committee Member

**MC**, *Mensch und Computer*, PC Member

**MKWI**, *Multikonferenz Wirtschaftsinformatik, Mobile and Collaborative Business Track*, PC Member

**MobiLearn05**, *Mobile Learning 2005*, PC Member

**MOCA**, *Workshop on Modelling of Objects, Components, and Agents*, PC Member

**MoMM**, *International Workshop on Mobile Multimedia Services and Applications*, General Chair (2003-2009), Advisory Chair (2010-2012), PC Member

**MONIT92**, *Workshop on Monitoring and Visualization of Parallel Systems*, Moravany, CSFR, Organizing Chair (1992)

**MPPPP93**, *Minisymposium on Performance Prediction of Parallel Programs*, December 1993, Austria, Organizing Chair

**OCG Herbsttagung**, *Gamification and Education in IT*, 2016, Austria, Organizing Chair

**PADS97**, *Workshop on Parallel and Distributed Simulation*, Austria, Local Arrangements Chair (1997)

**PECCS**, *International Conference on Pervasive and Embedded Computing and Communication Systems*, PC Member

**PERVASIVE**, *International Conference on Pervasive Computing*, Doctoral Colloquium Chair (2004), PC Member

**SIGMAP**, *International Conference on Signal Processing and Multimedia Applications*, PC Member (2015, 2016, 2017)

**SIGMETRICS**, *ACM SIGMETRICS*, USA, Publicity Chair Europe (1995)

**Tools**, *Modelling Techniques and Tools for Computer Performance Evaluation*, Austria, Organizing Chair (1994)

**WETICE**, *Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises*, Steering Committee Member (since 2004), General Chair (2003), PC Co-Chair (2001 with K. Bellman), Workshop Co-Chair with G. Neumann et.al. (1999-2001)

**WI08**, *Wirtschaftsinformatik-Tagung, Collaboration on Electronic Markets Track*, Augsburg, Germany, Track Co-Chair (with H.R. Hansen et.al., 2001)

**WoMencourage**, *ACM-W Europe womENcourage Celebration of Women in Computing*, Linz, Austria, PC Chair (2016)

**WWW**, *World Wide Web Conference, Mobility and Wireless Access Trac*, PC Member

[Service in Academic Bodies at The University of Linz](#)

Member of Habilitation Committees

Member of Recruitment Committees for Professor Positions

- 2021–present Präses - Feststellung der Gleichwertigkeit bei der Zulassung zum Masterstudium Computer Science
- 2021-2022, 2006–2016 Member of the Study Board Computer Science (Studienkommission Informatik)
- 2019–2021 Deputy Member of the Study Board Computer Science (Studienkommission Informatik)
- 2015–present Member of Strategy Board (“Strategiekommision”), Faculty of Technical and Natural Sciences
- 2009–present Member of “Institutskonferenz”, Institut f. Frauen und Geschlechterforschung
- 2007–2015 Chair in “Institutskonferenz”, Institut f. Integrierte Schaltungen
- 2007–2013 Member of the Study Board Business Informatics (Studienkommission Wirtschaftsinformatik)
- 2003–present Chair in “Institutskonferenz”, Institut f. Telekooperation
- 2003–2007 Deputy Member of the Academic Senate
- 2002–2007 Member of “Arbeitskreis für Gleichbehandlungsfragen” (Working Group for Equal Opportunity Issues)
- 2002–present Member of the Faculty Assembly, Faculty of Technical and Natural Sciences)



2002 Member and Deputy Chair in “Institutskonferenz”, Institut f. Technische Informatik und Telematik

### Service in Academic Bodies at Other Universities

Member of Recruitment and Evaluation Committees for Professor Positions at e.g. University of Vienna, University of Salzburg, University of Klagenfurt, University of Lübeck, European University Felsburg, Lulea University of Technology, King Saud University

Member of Habilitation Committees at e.g. University of Vienna, Technical University of Vienna, University of Salzburg, University of Klagenfurt

2009–2010 Member of the Curriculum Accreditation Committee Bachelor und Master Wirtschaftsinformatik, CAU Kiel

1999–2001 Member and Vice-Chair of the Faculty Committee “Mittelbaukurie im Fakultätskollegium”, Fakultät für Wirtschaftswissenschaften und Informatik, University of Vienna (Faculty Committee)

1994–2001 Member in “Studienkommission Wirtschaftsinformatik”, University of Vienna and Vienna University of Technology (Committee on the Business Informatics Curriculum)

1993–2001 Member and Vice Chair (2000-2001) in “Institutskonferenz”, Institut für Informatik und Wirtschaftsinformatik, University of Vienna (Department Committee)

1993–2001 Member in “Arbeitskreis für Gleichbehandlungsfragen”, University of Vienna (Working Group for Equal Opportunity Issues)

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## Research

### Research Areas

Software Technologies for Mobile and Internet Computing

Distributed and Cooperative Systems

Wireless Networking and Sensor Networks

Mobile Multimedia, Mobile Commerce, Mobile E-Business

Computer and Network System Modelling and Simulation

Performance Evaluation and Capacity Planning

Workload Characterization for Parallel and Distributed Systems

Interconnection Topologies for Parallel Processing Systems

### Funded Research Projects

2014–2015 **Vorstudie — Migration von COBOL-Systemen nach PL/I Umgebungen,**

*Funding:* FFG ,

Partners: Productivity Group, Vienna,

Role: Academic Partner

2012–2015 **Analysis on semantically structured Data from Smart Buildings and Smart Grids,**

*Funding:* BMVIT FFG Comet,

Partners: FTW Forschungszentrum Telekommunikation Wien GmbH,

Role: Academic Partner

2010–2012 **HWS-PAS — Highway in the Sky, Pilot Assistance System,**

*Funding:* BMVIT KIRAS,

Partners: AeroSpy,

Role: Academic Partner

2009–2012 **TROPIC — Transformations on Petri Nets in Color,**

*Funding:* FWF [P21374],

Partners: Vienna University of Technology,

Role: Academic Partner



- 2009–2011 **BeAware! semantic-based methods and technologies to leverage awareness in large-scale control systems**,  
*Funding: BMVIT FIT-IT Semantic Systems*,  
Partners: team Communication Technology Management GmbH,  
Role: Project Leader
- 2009–2011 **AMOR — Adaptable Model Versioning**,  
*Funding: BMVIT FIT-IT Semantic Systems [819584]*,  
Partners: Vienna University of Technology, SparxSystems Austria,  
Role: Project Leader
- 2007–2011 **SimRad.NBC, SimRad.COMP — IT support in training emergency units**,  
*Funding: BMVIT — Kiras Sicherheitsforschung*,  
Partners: Creative BITS Mihalits und Roth OEG, Traun, Red Cross Upper Austria,  
Role: Academic Partner
- 2006–2008 **SenAV — Sense and Avoid**,  
*Funding: Fit-IT Embedded Systems*,  
Partners: AeroSpy,  
Role: Project Co-Ordinator
- 2006–2007 **CRUISE — Creating an Ubiquitous Intelligent Sensor Environment**,  
*Funding: EC — Network of Excellence*,  
Partners: European Consortium with over 60 partners,  
Role: Technical Director (Overall Network) and Project Leader (Univ. of Linz)
- 2006–2007 **ModelCVS**,  
*Funding: Fit-IT Semantic Systems*,  
Partners: Vienna University of Technology, Industrial Partner,  
Role: Project Leader (Department of Telecooperation)
- 2004–2009 **AGRID — Austrian Grid, WP Mobile Grid**,  
*Funding: bm:bwk (Federal Ministry for Education, Science and Culture)*,  
Partners: Consortium of Austrian Universities,  
Role: WP Leader
- 2004–2005 **Tiscover — Performancesimulation**,  
*Funding: Company*,  
Partners: Institut für Anwendungsorientierte Wissensverarbeitung, Tiscover,  
Role: Project Leader (Department of Telecooperation)
- 2004–2005 **Breitband-Network-Group**,  
*Funding: Government of Upper Austria*,  
Role: Academic partner
- 2003–2004 **Development of an Interactive Training CD**,  
*Funding: Global Refund Austria (Industrial Partner)*
- 2003–2008 **EuroNGI/EuroFGI — Performance Evaluation for Future Generation Internet**,  
*Funding: EC — Network of Excellence*,  
Partners: European Consortium with over 60 partners,  
Role: Project Leader (Johannes Kepler University Linz)
- 2002–2006 **Medina — MEDiterranean by INternet Access**,  
*Funding: EUMEDIS, IST*,  
Partners: European Consortium

- 2002–2004 **MobiLearn — Creating Platform Independent Content for Mobile Learning Environments**,  
*Funding: National Government*,  
 Partners: Johannes Kepler Universität Linz, University of Vienna, Technical University of Vienna, University of Klagenfurt,  
 Role: Subcontractor
- 2002–2004 **Pervasive Computing / WP Mobile Multimedia**,  
*Funding: National Government UMF*,  
 Partners: Fachbereich Informatik, Johannes Kepler Universität Linz
- 2001–2003 **AMBIENCE — Context Aware Environment for Ambient Services**,  
*Funding: EC — ITEA / National Government*,  
 Role: Project Leader AT
- 2000–2001 **Mobile Internet Services**,  
*Funding: Enterprise Sports Promotion*,  
 Role: Key Researcher
- 1999–2000 **Multimedia Traffic Characterization**,  
*Funding: Wissenschaftlich-technische Zusammenarbeit Österreich-Frankreich*,  
 Partners: Raymond Marie, INRIA/IRISA Rennes, France,  
 Role: Key Researcher
- 1999–2000 **Web Concept Vienna City Marathon**,  
*Funding: Enterprise Sports Promotion*,  
 Role: Key Researcher
- 1998–2000 **EMMUS — European Multi Media Usability Services**,  
*Funding: EC — Esprit Project 28848*,  
 Partners: Communication Interactiva (Spain), Compaq/Digital Eq. (Ireland), Loughborough University (UK), Pixelpark Multimedia Agentur GmbH (Germany), University of Glasgow (UK),  
 Role: Project Co-Ordinator
- 1998–2000 **BISANTE — Broadband Integrated Satellite Network Traffic Evaluation**,  
*Funding: EC — Esprit IV*,  
 Partners: Thomson CSF (France), INT (France) University of Surrey (UK), Netway (Austria), SOLINET (Germany),  
 Role: Technical Leader
- 1998–1999 **Co-Operate — Distributed Multiuser Work Environments**,  
*Funding: BMWV*,  
 Partners: Universität Salzburg, Universität Linz,  
 Role: Key Researcher
- 1997–1999 **Network Management Through Intelligent Agents**,  
*Funding: Wissenschaftlich-technische Zusammenarbeit Österreich-Italien*,  
 Partners: Antonio Puliafito, University of Catania,  
 Role: Key Researcher
- 1997–1998 **VROEIG Virtuelle Realität für die Österreichische Informationsgesellschaft**,  
*Funding: BMWV*,  
 Partners: Universität Salzburg, Universität Linz,  
 Role: Key Researcher
- 1995–1996 **Parallel Simulation of Complex Workflow Models**,  
*Funding: ÖNB*,  
 Role: Key Researcher

- 1994–1995 **WLC Workload Characterization of Parallel Systems**,  
*Funding: Wissenschaftlich-technische Zusammenarbeit Österreich-Italien*,  
 Partners: Maria Calzarossa, University of Pavia,  
 Role: Key Researcher
- 1993–1995 **CEI Central European Initiative. WP3 — Performance Analysis of Parallel Systems and Their Workloads**,  
*Funding: Bundesministerium f. Wissenschaft und Forschung (BMWF)*,  
 Partners: University of Pavia, Polytechnico di Milano, Universität Wien,  
 Role: Key Researcher
- 1993–1994 **CAPSE Computer Aided Parallel Software Engineering**,  
*Funding: Bundesministerium f. Wissenschaft und Forschung (BMWF)*,  
 Partners: Jens Volkert, Universität Linz,  
 Role: Key Researcher
- 1992–1994 **MONIT Monitoring Parallel Processing Systems with Distributed Memory**,  
*Funding: Bundesministerium f. Wissenschaft und Forschung (BMWF)*,  
 Partners: Ladislav Hluchy, Slovak Academy of Sciences,  
 Role: Key Researcher
- 1991–1996 **PAPS Performance Analysis of Parallel Systems**,  
*Funding: Fonds zur F"orderung Wissenschaftlicher Forschung (FWF)*,  
 Role: Key Researcher

#### [Selected Research Visits](#)

- 2019 **Scholarship Interviews Ernst Mach ASEA-Uninet Grants**,  
*Thailand, Vietnam, Indonesia, April 29 - May 5*, (Research, Evaluation)
- 2018 **Scholarship Interviews Ernst Mach ASEA-Uninet Grants**,  
*Thailand, Vietnam, Indonesia, April 19 - 27*, (Research, Evaluation)
- 2014 **Forschungsreise Finnland**,  
*Finnland, June 4 - 6*, (Research Strategy)
- 2014 **Universita di Brescia**,  
*Brescia, Italy, January 21-25*, (Research)
- 2013 **ETH Zurich**,  
*Zurich, Switzerland, July 31 - Aug 3*, (Research)
- 2013 **ARM Limited**,  
*Cambridge, UK, January 1-4*, (Research)
- 2012 **Universitat Politecnica de Catalunya-Barcelona** ,  
*Barcelona, Spain, November 19-23*, (Research)
- 2011 **Universita di Pavia**,  
*Pavia, Italy, May 3-6*, (Research)
- 2010 **Norges teknisk-naturvitenskapelige universitet i Trondheim**,  
*Trondheim, Norway, September 23-26*, (Teaching)
- 2010 **Christian-Albrechts-Universität zu Kiel**,  
*Kiehl, Germany, January 19-23*, (Teaching)
- 2009 **Imperial College London**,  
*London, UK, May 20-23*, (Research)
- 2008 **Politechnika Krakowska**,  
*Krakow, Poland, April 27 - May 1*, (Research)
- 2008 **University of Salerno**,  
*Salerno, Italy, February 26 - March 1*, (Research)

- 2007 **School of Business and Management ITB**,  
*Jakarta, Indonesia, September 2007, (Teaching)*
- 2006 **Blekinge Institute of Technology**,  
*Blekinge, sweden, April 21-24, (Research)*
- 2004 **Eotvos Lorand University Budapest**,  
*Budapest, Hungary, May 3-6, (Teaching)*
- 1997 **University di Catania**,  
*Catania, Italy, May 15-18, (Research)*
- 1997 **Indian Institute of Technology**,  
*Madras, India, February, (Research)*
- 1994 **Universita di Pavia**,  
*Pavia, Italy, October 24-26 & November 28 - December 2, (Research)*
- 1993 **Politecnico di Milano**,  
*Milano, Italy, June 20-24, (Research)*

#### [Selected International Scientific Cooperations](#)

**Fabrizio Sestini**,

*DG Information Society & Media, European Commission, Brussels*

**Ramjee Prasad, Neeli R. Prasad**,

*University of Aalborg, Denmark*

**Monique Becker**,

*Institut Mines-Télécom, Paris, France*

**Hermann de Meer**,

*Universität Passau, Germany*

**Robert Tolksdorf**,

*Freie Universität Berlin, Germany*

**Max Mühlhäuser**,

*Technische Universität Darmstadt, Germany*

**Peter Kacsuk**,

*Hungarian Academy of Sciences, Hungary*

**Guiseppe Serazzi**,

*Politecnico di Milano, Italy*

**Maria Carla Calzarossa**,

*Universita di Pavia, Italy*

**Luisa Massari, Daniele Tessera**,

*Universita Cattolica del Sacro Cuore, Brescia, Italy*

**Zary Segall**,

*Royal Institute of Technology Stockholm, Sweden*

**Markus Fiedler**,

*Blekinge Institute of Technology, Sweden*

**Friedemann Mattern**,

*ETH Zürich, Switzerland*

**Erol Gelenbe**,

*Imperial College London, UK*

**Hans van der Heijden**,

*University of Surrey, UK*

**Allen Malony,**  
*University of Oregon, USA*

**David M. Nicol,**  
*University of Illinois, USA*

**Eduardo Carrillo Zambrano,**  
*Universidad Autonoma de Bucaramanga, Colombia*

**S.V. Raghavan,**  
*IIT Madras, India*

**Stephan Bressan,**  
*National University, Singapore*

**Mounir Mokhtari,**  
*Institute for Infocomm Research, Singapore*

**Artur Lugmayr,**  
*Curtin University, Australia*

**Maria Indrawan-Santiago,**  
*Monash University, Australia*

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## Publications

### Summary

26	Refereed Journal Articles
89	Refereed Conference and Workshop Papers
25	Invited Contributions
78	Editorial Work
36	Technical Reports and Others
3	Thesis (Master, PhD, Habil)
<b>255</b>	<b>Total</b>
	H-Index 19 (Google Scholar)

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  - j2 G. Haring, P Kacsuk, G Kotsis: Editorial, Distributed and Parallel Systems: Environments and Tools. Parallel Computing 22(13), pp. 1699-1701 (1997)
  - j1 G. Kotsis: A Systematic Approach for Workload Modeling for Parallel Processing Systems, Parallel Computing, Number 22, pp. 1771-1787, Elsevier/North Holland
  - c18 M. Braun, G. Kotsis: Interval Based Workload Characterization for Distributed Systems, Computer Performance Evaluation, Modelling Techniques and Tools, Proceedings, R. Marie, B. Plateau, M. Calzarossa, G. Rubino (Eds.), Lecture Notes in Computer Science 1245, pp. 181-192, Springer Verlag
  - c17 B. Bullnheimer, G. Kotsis, C. Strauss: Parallelization Strategies for the Ant System, Extended Abstract, Short Conference on HIGH PERFORMANCE SOFTWARE FOR NONLINEAR OPTIMIZATION, Italy
  - c16 G. Kotsis, K. Krithivasan, S. Raghavan: Generative Workload Models of Internet Traffic, Proceedings of the ICICS Conference, Volume 1, pp. 152-156, Singapore, IEEE

- c15 G. Kotsis, K. Krithivasan, S. Raghavan: A Workload Characterization Methodology for WWW Applications Performance and Management of Complex Communication Networks, Ed. Hasegawa et.al., pp. 173–153, Chapman and Hall
- i3 G. Kotsis, G. Haring: Introduction to the Minitrack on Distributed Virtual Reality Environments, within Proceedings of HICSS-30, page 635. IEEE, ISBN: 0-8186-7865-8.
- e4 G. Haring, P. Kacsuk, G. Kotsis: Parallel Computing, Number 22, Elsevier/North Holland
- t16 B. Bullnheimer, G. Kotsis, C. Strauss: Parallelization Strategies for the ANT System, SFB Adaptive Information Systems and Modeling in Economics and Management Science, Report No. 8, Vienna University of Economics and Business Administration
- t15 G. Haring, G. Kotsis, A. Puliafito, O. Tomarchio: A Virtual Environment for Processes Execution in Distributed Systems, TR-97101, Institute of Applied Computer Science, University of Vienna  
1996
- c14 G. Haring, G. Kotsis, S. Musil: INHOUSE - A User Oriented Monitoring Approach, Proceedings of the 4th Europmicro Workshop on Parallel and Distributed Computing, Braga, Portugal, January 1996, pp. 478–485, IEEE Computer Society Press
- c13 M. Braun, G. Haring, G. Kotsis: Deriving Parallelism Profiles from Structural Parallelism Graphs, Proceedings of the TDP'96, pp. 455–468
- c12 H. Pfneiszl, G. Kotsis: Synthetic Workload Generation for Parallel Processing Systems, Proceedings of the ACPC'96, Lecture Notes in Computer Science 1127, Editor L. Böszörményi, pp. 136–147
- c11 J. Luethi, G. Kotsis, S. Majumdar, G. Haring: Bounds-Based Performance Analysis for Distributed Systems with Variabilities and Uncertainties in Workload, DAPSYS 96, KFKI-1996-09/M,N, pp. 51-58, Hungarian Academy of Sciences
- c10 G. Kotsis: A Framework for Workload Modeling for Parallel Systems, DAPSYS 96, KFKI-1996-09/M,N, pp. 43-50, Hungarian Academy of Sciences
- i2 G. Kotsis, F. Sukup: Evaluation of Programming Tools on a Workstation Cluster, Tools and Environments for Parallel and Distributed Systems (Kluwer International Series in Software Engineering), Eds. A. Zaky and T. Lewis, Kluwer Academic Press
- t14 G. Kotsis: Scalability Analysis for Parallel and Distributed Systems, University of Vienna, Internal Report
- t13 H. Pfneiszl, G. Kotsis: Benchmarking Parallel Processing Systems - A Survey, TR-96103, Institute of Applied Computer Science, University of Vienna
- t12 J. Luethi, G. Kotsis, S. Majumdar, G. Haring: Performance Analysis Using Queueing Network Models with Variabilities and Uncertainties in Workload, TR-96102, Institute of Applied Computer Science, University of Vienna
- t11 A. Ferscha, J. Johnson, G. Kotsis, M. Richter: Parallel Simulation of Complex Workflow Models, University of Vienna, Jubiläumsfondsprojekt Nr. 5069, Final Report  
1995
- c9 G. Kotsis, F. Sukup: Efficiency Evaluation of Selected Parallelization Tools, Proceedings of the 28-HICSS Conference, IEEE Computer Society Press
- c8 M. Calzarossa, G. Haring, G. Kotsis, A. Merlo, D. Tessera: A Hierarchical Approach to Workload Characterization for Parallel Systems, Proceedings of HPCN Europe, Milano, High Performance Computing and Networking, LNCS vol. 919, Eds. B. Hertzberger and G. Serazzi, pp. 102–109



- i1 G. Haring, G. Kotsis: Workload Modeling for Parallel Processing Systems, Invited Paper at MASCOTS 95, Durham USA, Proceedings of the 3rd Int. Workshop on Modeling, Analysis and Simulation of Computer and Telecommunication Systems, Eds. P. Dowd and E. Gelenbe, pp. 8–12, IEEE Computer Society Press, ISBN 0-8186-6902-0
  - t10 C. Holzer, H. Pfneiszl, G. Kotsis: Parallel Implementation and Analysis of a NAS Kernel Using N-MAP, Internal Report, University of Vienna
  - PhD Workload Modeling for Parallel Processing Systems, PhD Thesis, May 1995, University of Vienna (Awarded with the Heinz-Zemanek Preis)
- [1994](#)
- c7 G. Kotsis: Workload Models for Parallel Computer Systems, Proceedings of the Workshop on Parallel Processing in Lessach, Austria, Report Series TU Clausthal, pp. 50–57
  - e3 G. Haring, G. Kotsis: Computer Performance Evaluation. Modelling Techniques and Tools. Lecture Notes in Computer Science 794, Springer Verlag, Heidelberg, ISBN 3-540-58021-2
  - e2 R. Marie, G. Haring, G. Kotsis: Performance and Reliability Evaluation Tutorial Papers of the 7th Int. Conf. on Modelling Techniques and Tools for Computer Performance Evaluation, OCG Schriftenreihe, Volume 73, Oldenbourg Verlag, ISBN 3-85403-073-8
  - t9 A. Ferscha, J. Johnson, G. Kotsis: Systematic Approach for Workload Characterization of Parallel Programs, Deliverable for CEI-WP3 project D3H-1, University of Vienna
  - t8 G. Haring, S. Musil, G. Kotsis: Monitoring Parallel Processing Systems with Distributed Memory, Final Report, Forschungsauftrag des BMWF GZ 613.542/1-26/92, University of Vienna
  - t7 A. Ferscha, G. Haring, A. Hofmann, G. Kotsis, T. Nemeč: Methods for the Representation and Analysis of Work Flows, Abschlußbericht zum Methodenseminar, University of Vienna
- [1993](#)
- c6 H. Wabnig, G. Kotsis, G. Haring: Performance Prediction of Parallel Programs, in MMB 1993, B. Walke and O. Spaniol (Eds.): Messung, Modellierung und Bewertung von Rechen- und Kommunikationssystemen, Springer Verlag, pp. 64–76
  - c5 A. Ferscha, G. Kotsis, Performance Oriented Parallel Program Development in the CAPSE Environment, Proceedings of the Austrian Hungarian Joint Seminar on Software Engineering, pp. 1–4
  - c4 G. Kotsis: Interconnection Topologies for Parallel Processing Systems, PARS Mitteilungen, Nr. 11, pp. 1–6
  - e1 G. Haring, G. Kotsis: Performance Measurement and Visualization of Parallel Systems, Advances in Parallel Computing, Volume 7, G. R. Joubert, Udo Schendel (Series Eds), North Holland, ISBN 0-444-89902-2.
  - t6 G. Kotsis: Workload Models for Parallel Systems, Fachgespräch Lastmodellierung, UNI der Deutschen Bundeswehr München
- [1992](#)
- c3 A. Ferscha, G. Kotsis: Optimum Topologies for the compute-aggregate-broadcast Operation on a Transputer Network, Proc. of the Transputer'92 Conference, pp. 307–326
  - c2 G. Kotsis, Interconnection Topologies and Routing for Parallel Processing Systems, KFKI Report Series, KFKI-1992-34/M,N, pp. 95–106
  - t5 G. Kotsis: Interconnection Topologies and Routing for Parallel Processing Systems, ACPC Technical Report, ACPC/TR 92-19
  - t4 G. Kotsis: Visualization of Performance Information and System Behaviour, Tutorial Notes, University of Vienna

- t3 H. Blaschek, G. Drsticka, G. Kotsis: Visualization of Parallel Program Behaviour, Abschlußbericht zum Literaturseminar, University of Vienna
- t2 G. Kotsis: Performance Modeling Tools for Parallel and Distributed Systems, Internal Report, University of Vienna  
1991
- c1 A. Ferscha, G. Kotsis: Eliminating Routing Overheads in Neural Network Simulation Using Chordal Ring Interconnection Topologies, Proc. of the Neuro-Nimes 91, 4th Int. Conf. on Neural Networks and their Applications, pp. 625–638
- t1 A. Ferscha, G. Kotsis: Eliminating Routing Overheads in Neural Network Simulation Using Chordal Ring Interconnection Topologies, ACPC Technical Report, ACPC/TR 91-8
- Master Interconnection Topologies and Routing for Parallel Processing Systems, Master Thesis, May 1991, University of Vienna (Awarded with the OCG-Foerderpreis)

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## Presentations and Talks

### Selected Scientific Talks

- 03.12.2018 Informatik als Schlüsseldisziplin der Zukunft, GHR Symposium, Austrian Computer Society, Vienna, Austria, invited talk
- 28.08.2017 Omnipresent Multimedia - Pain and Gain of the Always Connected Paradigm, DEXA 2017, Lyon, France, invited talk
- 17.04.2017 Omnipresent Multimedia - enabling new ways of communication and cooperation, ISCV 2017, Fes, Morocco, invited talk
- 08.12.2014 The Human Face of Mobile, MoMM 2014, Kaoshiung, Taiwan, invited talk
- 04.12.2014 Dumb Web, Smart Web, Knowledgeable Web, iiWAS 2014, Hanoi, Vietnam, invited talk
- 23.01.2014 Scenarios for Collaborative Architectures for Monetizing Broadcast Archive Clips, IATA Workshop, Brescia, Italy
- 03.12.2012 10 years of Mobile Multimedia - from Motorola RazR to iPhone 5, iiWAS/MoMM 2012, Sanur, Indonesia, invited talk
- 05.12.2011 New Challenges for Universities in the Knowledge Triangle, iiWAS/MoMM 2011, Vietnam, invited talk
- 04.05.2011 AWPS - an architecture for pro active web performance management, Università di Pavia, Italy, invited talk
- 08.11.2010 iiWAS/MoMM 2010, Paris, France
- 16.10.2010 AWPS - an architecture for pro-active web performance management, Perform Workshop 2010, Vienna, Austria
- 17.08.2010 Omnipresent Multimedia - enabling new ways of communication and cooperation, AMR Workshop, Linz, Austria
- 14.12.2009 The Evolution of the Web: Information - Communication - Cooperation, Keynote iiWAS/MoMM 2009, Kuala Lumpur, Malaysia
- 14.05.2009 Next Generation Internet, iTechnoLog 09, AEC, Linz, Austria
- 30.06.2008 Next Generation Cooperative Environments: A QoS Perspective, ICCSA 2008, International Conference on Computational Science and its Applications, June 30 - July 3 2008, Università di Perugia, Italy
- 07.03.2008 The Web Goes Mobile: Can We Keep the Pace?, CISIS 2008, Barcelona, Spain
- 01.08.2007 Norms for Modelling Agent Interactions in Ubiquitous Environments, Inter-Symp 2007, 19th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany

- 06.11.2006 Challenges in Sensor Network Applications, Euro-India Workshop on Next Generation Wireless Technologies, Kolkata, India, invited talk.
- 17.09.2006 Tutorial Applications in Sensor Networks, WPMC, San Diego, USA
- 10.04.2006 Mobile/Wireless Computing: A QoS Perspective, Aalborg University, Denmark
- 07.02.2006 Beyond Desktop Computing: Technology Trends and Future Applications, EATIS 2006, Euro American Conference on Telematics and Information Systems, University of Bucaramanga, Santa Martha, Colombia, Keynote Talk.
- 13.02.2006 Beyond Desktop Computing: Technology Trends and Future Applications, International Conference on Internet and Multimedia Systems and Applications, February 13-15 2006, Innsbruck, Austria, Keynote Talk.
- 22.09.2004 Performance issues in mobile commerce applications, Momm 2004, Bali, Indonesia.
- 15.09.2003 Performance of (mobile) Web Services, iiWAS & MoMM 2003, September 15-17 2003, Jakarta, Indonesia
- 08.07.2003 Embedding Mobility Support in Airline Crew Pairing, Rostering, and Operations, EUROINFORMS 2003, July 7-10 2003, Istanbul, Turkey
- 20.02.2003 Performance of Web Services, FAW Research colloquium, Hagenberg, Austria
- 14.08.2002 Performance Management in Ubiquitous Computing Environments, ICCC 2002, International Conference on Computer Communication, August 12-15 2002, Bombai, India
- 12.08.2002 IT Support for Collaboration - Pain or Gain ?, IRIS 2002, Scandinavian IS Conference, August 10-13 2002, Bautahoj, Denmark
- 02.05.2002 Performance of (mobile) Web Services, Research Seminar, Copenhagen Business School, Denmark
- 31.10.2001 Mobile and Wireless Communication, Research Presentation, Copenhagen Business School, Denmark
- 20.04.2001 Mobile and Wireless Environments - a quality of service perspective, Research Presentation, University of Linz, Austria
- 23.03.2001 Mobile Group Communication Systems, Research Presentation, University of Salzburg, Austria
- 20.10.2000 Final Presentation of BISANTE Objectives and Achievements, BISANTE Final Review Meeting, Surrey, UK
- 24.03.2000 Performance Management in Parallel and Distributed Computing Systems, Habilitation Colloquium, Vienna, Austria
- 28.09.1998 Graph Based Characterization of Distributed Applications, DAPSYS 98, Second Workshop on Distributed and Parallel Systems, September 28-30 1998, Budapest, Hungary
- 01.07.1998 REBELS - Remote Execution BasEd Load-balancing System, EURO-PDS'98, European Conference on Parallel and Distributed Systems, July 1-3 1998, Baden, Austria
- 24.06.1998 User-Behavior Oriented Generative Workload Modeling for WWW Applications, invited Talk, Graduiertenkolleg Parallele und Verteilte Systeme, Universitaet Stuttgart, Germany.
- 09.01.1998 Optimistic Distributed Execution of Business Process Models, HICSS-31, Hawaiian International Conference on System Sciences January 6-9 1998, Big Island, USA
- 19.11.1997 A Workload Characterization Methodology for WWW Applications, PMCCN97, International Conference on Performance Modeling of Complex Communication Networks, November 19-21 1997, Tsukuba, Japan
- 18.09.1997 (Generative) Workload Modeling, invited talk, Dagstuhl Seminar on Performance Evaluation, September 15-19 1997, Schloss Dagstuhl, Germany

- 10.09.1997 Generative Workload Models of Internet Traffic, ICICS97, International Conference on Information, Communication, and Signal Processing, September 9-12 1997, Singapore
- 05.06.1997 Interval Based Workload Characterization for Distributed Systems, MTT'97, 8th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation, June 3-6, 1997, St. Malo, Frankreich
- 24.10.1996 Synthetic Workload Generation for Parallel Processing Systems, International Conference of the Austrian Center for Parallel Computation, University of Klagenfurt, Austria.
- 02.10.1996 A Framework for Workload Modeling for Parallel Systems, DAPSYS 96, First Austrian-Hungarian Workshop on Distributed and Parallel Systems, October 2-4 1996, Hotel Juno, Miskolc, Hungary
- 06.02.1996 Client/Server Solutions - State of the Art, exponet 96, February 6-8 1996, Austria Center Vienna, Austria
- 25.01.1996 InHouse - A User-oriented Monitoring Approach, Euromicro 96 Workshop on Parallel and Distributed Processing, January 24-26 1996, Braga, Portugal
- 05.10.1995 Petri Net Performance Models for the Intel Paragon Communication System, PNPM'95, International Conference on Petri Nets and Performance Models, October 3-6 1995, Duke University, North Carolina, USA
- 03.05.1995 A Hierarchical Approach for Workload Characterization for Parallel Systems, HPCN Europe, European Conference on High Performance Computers and Networks, May 3-5 1995, Milano, Italy
- 04.01.1995 Efficiency Evaluation of Selected Parallelization Tools, HICSS-28, Hawaiian International Conference on Computer Systems, January 3-6 1995, Maui, USA
- 26.09.1994 Workload Models for Parallel Processing Systems, Workshop on Parallel Processing, September 26-30 1994, Lessach, Austria
- 24.11.1993 Workload Characterization for Parallel Systems, Fachgespräch Lastmodellierung, Universität der Deutschen Bundeswehr Muenchen, Deutschland.
- 14.10.1993 Cayley Graphs, PDCS-93, Sixth International Conference on Parallel and Distributed Systems, October 14-16 1993, Galt House Hotel, Louisville, Kentucky, USA
- 04.05.1993 Performance Analysis in CAPSE, Austrian-Hungarian Joint Seminar on Systems Engineering, Budapest, Hungary
- 01.04.1993 Verbindungstopologien fuer Parallelrechner, Workshop Parallele Systeme und Algorithmen, Bonn, Germany
- 10.10.1992 Interconnection Topologies for Multicomputer Systems, First Austrian-Hungarian Transputer Workshop, Sopron, Hungary.
- 15.09.1992 Visualization of Performance Information and System Behaviour, MTT 92, 6th International Conference on Modeling Techniques and Tools for Computer Performance Evaluation, September 15-18 1992, Edinburgh, UK
- 28.03.1992 Visualization of Parallel Program Behaviour, Workshop of the Austrian Center for Parallel Computation, Schloss Weinberg, Austria.
- 25.02.1992 Visualization in the CAPSE Environment, Austrian-Hungarian Joint Seminar on Systems Engineering, Vienna, Austria.
- 08.11.1991 Eliminating Routing Overheads in Neural Network Simulation Using Chordal Ring Interconnection Topologies, International Conference on Neural Networks and Their Applications, Nimes, France
- [Selected Other Talks and Presentations](#)
- 18.09.2018 Moderation Pro2Future in Progress, University of Linz, Austria
- 17.09.2018 Paneldiskussion Digital Valley "Bildung, IKT Konvent, Vienna, Austria

- 01.09.2018 Die Informatik entzaubern, didact opening panel, University of Salzburg, Austria
- 01.02.2018 Weltmacht Computer: beherrscht der Computer uns oder wir ihn?, YO!TECH - Lust auf Technik, Vienna, Austria
- 16.10.2015 Weltmacht Computer: beherrscht der Computer uns oder wir ihn?, Technolution Workshop, Vienna, Austria
- 22.09.2015 Panel "Lessons learned (so far)", Horizon 2020 Informationsveranstaltung, FFG, Tech Gate Vienna, Austria
- 09.06.2015 Lightning Talk zum Thema IT und Karriere, OCG Jahrestagung, Vienna, Austria
- 08.06.2015 Paneldiskussion Zukunft der Informatik, OCG Jahrestagung, Vienna, Austria
- 24.02.2015 Laudationes for Research and Teaching Award, County of Upper Austria, Linz, Austria
- 01.09.2014 Benchmarking and Rankings, Workshop of JKU Rectorate and Advisory Board, Linz, Austria
- 28.03.2014 Forschung Live erleben! Press Conference for Upper Austrian Researchers Night, Linz, Austria
- 01.06.2012 Eröffnung Symposium Supercomputer Doppler, Universität Salzburg, Austria
- 07.05.2012 JKU - Studieren im Herzen Europas, Club Alpha-Frauen, Linz, Austria
- 03.11.2011 Mechatronik - Europas Antwort auf die Megatrends, Press Conference, ACCM Science Talk, Vienna, Austria
- 27.10.2011 Internet-Technologien: von der Informationssuche zur Kommunikation und Zusammenarbeit, Breitband-Forum, St. Martin, Austria
- 11.10.2011 Die Johannes Kepler Universitaet - Positionen und strategische Ausrichtung, Kulturgesellschaft, Linz, Austria
- 23.08.2010 The Digital World: Supplement or substitute?, Alpbacher Technologiegespraech, Forum Alpbach, Austria
- 17.03.2010 Was heißt Exzellenz? Forschung an der Johannes Kepler Universitaet, Treffpunkt Wissenschaft, Linz
- 09.03.2010 From Digital Media to Digital Worlds, Vortragsreihe zu Wissensmanagement und digitalen Medien an der Donau-Universitaet Krems, Austria
- 13.01.2010 Spitzenplatz im Ranking = Spitzenplatz in der Forschung?, EWMD-Linz Clubabend, Linz, Austria
- 20.03.2007 Web der Zukunft, Symposium Neue Technologien im Alltag, tech2b Day 2007, Linz, Austria
- 29.03.2006 Wissenschaftskulturen in einer Globalisierten Welt - braucht Europa eine Neupositionierung?, 7. Ernst Mach Forum, Diskussionsrunde, OeAW, Wien, Austria
- 2003-2006 Road Show on Promoting the European Computer Driving Licence and related OCG projects. Bregenz, Graz, Innsbruck, Linz, Salzburg, Semmering, Vienna, Austria
- 07.11.2005 Forscherinnen-Empowerment, Press Conference, Vienna, Austria
- 29.10.2004 ECDL-PD Project, Press Conference, Graz, Austria
- 07.10.2004 Informationstechnologie als Werkzeug fuer Alle, Oesterreichtag, Eisenstadt, Austria
- 06.10.2004 ECDL - eFit Austria, Press Conference, Vienna, Austria
- 07.07.2004 Wohin fahren wir in Zukunft am Datenhighway?, Upper Austrian Broadband Day, Wirtschaftskammer Linz, Austria
- 26.04.2004 Mobile Interfaces, Workshop on Everywhere Interfaces, One Smart Space, Vienna, Austria
- 27.08.2003 Women in Computer Science - A Personal Perspective, WITFOR 2003, August 27-28 2003, Vilnius, Lithuania
- 07.05.2003 Web Performance, lecture broadcasted via the upper austrian education highway, Linz, Austria

- 18.02.2003 Das Schweigen der Handys, Sky Lounge, Ars electronica Center Linz, Austria  
 03.10.2002 Press Conference on Drop Out Rates of Students in IT, Vienna, Austria  
 20.03.2002 Seminar E-Commerce, half day tutorial / lecture, Krems, Austria  
 08.11.2001 Weil ich ein Mädchen bin - Frauen in der Informatik, IT works for Women, Vienna, Austria  
 18.01.2000 Towards a Mobile Office - Technologies and Visions, Hochschule für Angewandte Kunst, Meisterklasse Textil, Vienna, Austria  
 20.03.1997 Women in Computer Science, UNISEX, Symposium FrauenForschen, Universität Wien, Austria

## Teaching

### Past and Current Courses at University of Linz

- Bachelor**
- Multimedia Systems**, *2h Lecture*, mandatory course in computer science, elective in other curricula  
summer 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
  - Telemedia I**, *2h Lecture*, mandatory course in Computer Science, elective in other curricula  
summer 2003, 2004, 2005, 2006, 2007
  - Präsentations- und Arbeitstechnik**, *2h Lecture*, mandatory course in Computer Science  
summer 2018, 2019, 2020
  - Selected Topics in Computer Science**, *2h Seminar, 5h Practical*  
winter/summer 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
- Master**
- Principles of Cooperation**, *2h Lecture 1h Lab*, mandatory course in computer science, elective in other curricula  
summer 2014, 2015, 2016, 2017
  - Cooperative Systems**, *2h Lecture*  
summer 2008, 2009, 2011, 2012, 2013
  - Telemedia 2**, *2h Lecture*  
winter 2003, 2004, 2005, 2006, 2007
  - Principles of Interaction**, *2h Lecture 1h Lab*, mandatory course in computer science, elective in other curricula  
summer 2017, 2018, 2019, 2020
  - Unconventional User Interaction**, *2h Lecture + 1h Lab*, in cooperation with external lecturers  
summer 2007, 2008, 2009, 2010, 2011, 2012, 2013
  - Web Performance**, *2h Combined Course*, elective in computer science and other curricula  
winter 2019
  - Web Performance**, *1/2 h Lecture + 1/2h Lab*, elective in Web Sciences  
summer 2012, 2013, 2014, 2015, 2016, 2017
  - Capacity Planning**, *1h Lecture + 1h Lab*, elective in computer science and other curricula  
summer 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017
  - Human Computer Interaction**, *2h Lecture*, elective in computer science and other curricula  
winter 2019

**Advanced Topics in Computer Science**, *misc*, including Mobile Computing, Knowledge Management and Digital Media, FEM-IT Ringvorlesung (in cooperation with external lecturers, LINUX on System z (in cooperation with IBM Austria), Sensor Network Application Development, Digital and Interactive TV, Mobile Learning, Mobile Multimedia Systems, Performance Measurement, Internet System Performance EuroNGI Summer School (in cooperation with external lecturers)

winter/summer 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015

**Master Seminar 1, 2, 3h Seminar**

winter/summer 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020

PhD **Dissertantenseminar 1, 2, 3, 4, 3h Seminar**

winter/summer 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020

[Past Courses at the Vienna University of Business and Economics](#)

**Einführung in die Elektronische Datenverarbeitung**, *2h Lecture*

summer 2001, winter 2001/02

**E-Commerce und Neue Medien**, *2h Lecture*

summer 2001, winter 2001/02

**IT für Führungskräfte**, *2h Lecture + 2h Seminar*

summer 2001, winter 2001/02

**Konversatorium für Diplomand/inn/en und Dissertant/inn/en**, *2h Seminar*

summer 2001, winter 2001/02

**Seminar aus ABWL/SBWL Wirtschaftsinformatik: M-Commerce**, *2h Seminar*

summer 2001, winter 2001/2002

[Past Courses at the University of Vienna](#)

**Analyse und Bewertung von DV-Systemen**, *1h Lab*

summer 1992 (3 × 1h), 1993 (5 × 1h), 1994 (5 × 1h), 1995 (4 × 1h), 1996 (4 × 1h), 1997 (4 × 1h)

**Anwendungen der Wirtschaftsinformatik**, *4h Lab*

winter 1997 (Internet Business Solutions), 1998 (Workflow Modeling and Simulation), 2000 (Internet Business Solutions)

**Grundzüge der Informatik II (Technische Informatik)**, *2h Lecture*

winter 1995, 1996, 1997

**Planung und Realisierung von Informatikprojekten**, *1h Lab*

summer 1998 (5 × 1h), 1999 (5 × 1h), 1999/2000 (3 × 1h, 2000 (2 × 1h), 2000/2001 (2h Lecture), 2000/2001 (2 × 1h)

**Prinzipien und Methoden der Parallelverarbeitung**, *1h Lab*

winter 1993, 1994, 1995, 1996

**Praktikum Parallelverarbeitung**, *2h Lab*

summer 1993 (Distributed Simulation of Petri Nets), 1994 (Parallel Algorithms in Operations Research), 1995 (Modeling Communication in Parallel Processing Systems), 1996 (Distributed Simulation of Traffic), 1997 (Internet Computing)

**Softwareentwicklung Paralleler Programme**, *2h Lab*

winter 1993, 1994, 1995, 1996

**Wahlfach Besondere Informatik: Network Computing**, *1h Lecture + 1h Lab*

winter 2000

[Past and Current External Teaching and Guest Lectures](#)

Austria **Wissenschaftliches Arbeiten**, *2h Lecture+Lab*, FH Kufstein

Winter Terms 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2019, 2020, 2021



**Guest Lecture: From Digital Media to Digital Worlds**, *Ringvorlesung*, Donau-Universität Krems

March 2, 2010

**Multimedia Verarbeitung**, *2h Lecture+Lab*, FH Eisenstadt

Summer Terms 2008, 2009

**Fallstudien aus Wirtschaftsinformatik**, *2h Lecture+Lab*, FH Kufstein

winter 2006, 2007

**E-Commerce**, *Full Day Seminar*, Donau-Universität Krems

summer 2002

Denmark **Performance Evaluation and Capacity Planning of Web Services**, *4h Lecture+Lab*, Copenhagen Business School

winter 2002

**Applications in Sensor Networks**, *Half Day Tutorial*, University of Aalborg, Denmark, CRUISE Summer School on Sensor Networks

September 2006

Hungary **Performance Evaluation and Capacity Planning of Web Services**, *1 week course*, Eotvos Lorand University Budapest, Hungary, CEEPUS exchange program

winter 2003/04

Indonesia **Multimedia Communication Systems**, *Three Day Course*, School of Business and Management ITB, Jakarta, Indonesia

September 2007

### [Supervision of PhD Theses](#)

Linz **Thomas Neumayr**, *Hybrid Collaboration*, ongoing, University of Linz

**Manuela Pollak**, *Human-Drone Teaming*, ongoing, University of Linz

**Andreas Schuler**, *Characterizing Software Energy Consumption in Mobile Application Development to Support Third-Party-Library Selection*, 2023, University of Linz

**Andreas Riegler**, *Augmented Reality Windshield Displays for Automated Driving*, 2022, University of Linz

(third examiner, first supervisor: Andreas Riener)

**Rainer Kelz**, *Exploring Polyphonic Piano Transcription as an Inverse Problem*, 2022, University of Linz

(third examiner, first supervisor: Gerhard Widmer)

**Bernhard Göschlberger**, *Scalable Social MicroLearning*, 2022, University of Linz

**Clemens Schartmüller**, *Towards a Mobile Office: User Interfaces for Safety and Productivity in Conditionally Automated Vehicles*, 2022, University of Linz

(third examiner, first supervisor: Andreas Riener)

**Servadei Lorenzo**, *Cost Estimation and Optimization of Hardware / Software Co-Designs Using Machine Learning*, 2021, University of Linz

(third examiner, first supervisor: Robert Wille)

**Anna-Katharina Frison**, *The DAUX Framework: A Need-Centered Development Approach for User Experience in Driving Automation*, 2020, University of Linz

(third examiner, first supervisor: Andreas Riener)

**Philipp Wintersberger**, *Automated Driving: Towards Trustworthy and Safe Human-Machine Cooperation*, 2020, University of Linz

(third examiner, first supervisor: Andreas Riener)

**Melanie Tomaschko**, *Exploiting the Potential of Mobile Learning in Mathematics Education*, 2020, University of Linz

(second examiner, first supervisor: Markus Hohenwarter)

**Anna Maria Al Zubaidi-Polli**, *In-situ and ex-situ technology appropriation in semi-public spaces*, 2019, University of Linz

**Patrick Parzer**, *Design and Implementation of Smart Textile Sensors Enhancing Everyday Objects*, 2019, University of Linz

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- Georg Simhandl**, *User Innovation Toolkits fuer situationsbezogene Dienste - Konzeptionell-evaluative Geschaeftsmodellanalyse und prototypische Implementierung*, 2007, Vienna University of Economics and Business Administration  
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- Engin Kirda**, *Engineering device independent web services*, 2002, Technical University of Vienna  
Co-Supervisor
- Chadi Suleiman**, *Mobile Financial Services*, 2002, Technical University of Vienna
- Hannes Pfneiszl**, *Requirements for the Next-Generation Internet - Planning, Billing and Cost Analysis*, 2001, University of Vienna
- Helmut Hlavacs**, *Cluster Computing-High Performance Solutions of Problems with Unknown Complexity*, 2000, Technical University of Vienna  
Second Advisor
- Markus Braun**, *Characterization and Analysis of Parallelism in Programs using Task Graphs*, 2000, University of Vienna  
assisting advisor
- France **Romain Endelin**, *Mechanism for Optimizing the Reasoning for Activity Recognition: Application for Ambient Assisted Living for Elderly People*, 2016, Universite de Montpellier  
member of the PhD Committee
- Rhiad Dhaou**, *Modeling of Networks Composed of Satellite Constellations*, 2002, Institute National des Telecommunications  
member of the PhD Committee
- Michel Marot**, *Contributions á l'Etude du Trafic dans les Réseaux*, 2001, Institute National des Télécommunications  
member of the PhD Committee
- Sweden **Daniel Grahlund**, *On Mobility Solutions in Heterogeneous Networking Environments*, 2015, Lulea University of Technology, Skelleftea  
Member of the Grading Committee

### [Selected Supervision of Master Theses](#)

- Linz **Csilla Solyom Gecse**, *Voice based input modalities for GeoGebra for people with special needs*, ongoing, University of Linz
- Thomas Lintner**, *Encouraging Teamwork with Approaches from Gamification*, ongoing, University of Linz
- Daniel Pucher**, *Generating User Profiles Based on Social Media Interaction*, 2019, University of Linz
- Dominik Prilmüller**, *Position Tracking in Sports with Bluetooth Low Energy Beacons*, 2018, University of Linz
- Daniel Stöger**, *Alternative input methods for CAD software*, 2018, University of Linz
- Ahmed Abdelkhalek Magdi**, *Technology Radar for Retail Applications*, 2018, University of Linz
- Ariana Puscas**, *Prototypical Implementation and Evaluation of Automated Routing and Tracking Services in Street Maintenance*, 2018, University of Linz
- Melanie Tomaschko**, *Integrating mobile and sensory technology in mathematics education*, 2017, University of Linz
- Manuela Pollak**, *E-Mail Monitoring and Management with MS Social Bots*, 2017, University of Linz
- Melanie Donabauer**, *Developing an Application Infrastructure Using CORBA*, 2017, University of Linz
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- Bernhard Veitschegger**, *Cross Plattform Entwicklungsmethoden für mobile Anwendungen: Überblick und praktischer Einsatz*, 2014, University of Linz
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second examiner
- Matthias Steinbauer**, *Sensor Based, Automated Detection of Behavioural Stereotypes in Informally Formed Workgroups*, 2012, University of Linz
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- Gerold Hoelzl**, *A personalised body motion sensitive training system based on auditive feedback*, 2010, University of Linz
- Ionela-Diana Vele**, *Evaluation of mobile GUI frameworks for building a generic GUI library for the mobile interpreter MInt*, 2010, Internationaler Universitaetslehrgang Informatics: Engineering & Management, Hagenberg, University of Linz
- Gregor Stadlhuber**, *Enhancing the Experience of Web Through Mobile Device Abilities*, 2010, University of Linz
- Adriana Ioana Iacob**, *Problem Diagnosis in Large Scale Computing Environments - Data Analysis*, 2009, Internationaler Universitaetslehrgang Informatics: Engineering & Management, Hagenberg, University of Linz
- Gheorghe Olimpiu Pop**, *Problem Diagnosis in Large Scale Computing Environments: Approaches Towards Automated Healing*, 2009, Internationaler Universitaetslehrgang Informatics: Engineering & Management, Hagenberg, University of Linz

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- Evelyn Reichel**, *Design und Implementierung einer mobilen Mehrbenutzeranwendung - Ein Pilotprojekt anlaesslich der Kulturhauptstadt 2009*, 2006, University of Linz
- Severin Forstinger**, *Potentiale und Grenzen von Mobilern Lernumgebungen aus technischer Sicht*, 2005, University of Linz
- Andreas Preinfalk**, *Moeglichkeiten der Unterstuetzung der medizinischen Diagnostik und Behandlung durch den Einsatz von Telekommunikations-Methoden am Beispiel der gastroenterologischen Endoskopie*, 2005, University of Linz
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- Peter Wimmer**, *Aufnahme und Wiedergabe stereoskopischer Videos im Anwendungsbereich der Telekooperation*, 2004, University of Linz
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- Harald Pichler**, *Analyse eines AVATAR-Systems fuer ein Business-Kunden-Informationportal eines Mobilkommunikationsanbieters*, 2003, Vienna University of Economics and Business Administration
- Petra Platzer**, *Advertising in the Wireless Market*, 2002, Vienna University of Economics and Business Administration
- Andreas Stelzl**, *Performance Evaluation in Distributed Systems: An Agent Based Approach*, 2002, University of Vienna
- Lukas Taferner**, *Evaluation and Comparison of Web-Based Database Access*, 2002, Vienna University of Economics and Business Administration
- Nikos Charalampopoulos**, *A Software Architecture for Mobile E-Commerce*, 2001, University of Vienna
- Christine Ebner**, *Internet user behaviour modelling*, 2000, University of Vienna
- Hannes Pfneiszl**, *Synthetic Workload Generation for Parallel Processing Systems*, 1996, University of Vienna  
assisting advisor
- Florian Sukup**, *Efficiency Evaluation of Selected Parallelization Tools*, 1993, University of Vienna  
assisting advisor

Italy **Momin I. M. Tabash**, *Monitoring and Benchmarking Tool Chain for DYNAMOGRAPH Framework*, 2013, University of Pavia  
second supervisor

Malaysia **Sayed Gholamhassan Tabatabei**, *Discovery and Composition of Semantic Web Services using AI Planning and Web Service Modeling Ontology*, 2010, University of Teknologi Malaysia  
External Examiner