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I. Affiliation

University	Johannes Kepler University Linz
Department	Institute of Pervasive Computing
Current position	Full Professor (Computer Science) Head of the Institute of Pervasive Computing Scientific Director of the RSA FG Studio Pervasive Computing Applications Scientific Director of the COMET K1 Centre Pro ² Future
Work address	Altenberger Strasse 69, 4040 Linz, Austria
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www	jku.at/pervasive

II. Personal Data

Full name	Univ.-Prof. Mag. Dr. Alois Ferscha
Mobile	+43 699 1111 1010
Date of birth	February 28, 1962 in Oberpullendorf, Austria
Citizenship	Austria
Civilian Service	February to September 1992 (Bundesministerium für Inneres, Abteilung IV/9, Zivildienst-Organisation)

III. Work Experience

2020–Present	Scientific Director , Pro2Future GmbH, FFG COMET K1 Centre, Austria.
2020–2024	President of the ÖWGP (2020–2022), 2 nd Vice-President (2022–2024)
2017–2020	CEO & Scientific Director , Pro2Future GmbH, FFG COMET K1 Centre, Austria.
2023–2025	Dean of the Faculty of Engineering and Natural Sciences , Johannes Kepler University, Linz (Austria).
2015–2017	Dean of the Faculty of Engineering and Natural Sciences , Johannes Kepler University, Linz (Austria).
2000–Present	Full Professor in Computer Science and Head of the Institute of Pervasive Computing, Johannes Kepler University Linz, Austria.
2002–2004	Head of the excellence initiative „Pervasive Computing” , Johannes Kepler University, Linz (Austria).
2002	ERASMUS Guest Teacher , Technical University of Budapest, Budapest (Hungary). Computer Science Department.
2001–2006	Founder and Head , Research Institute for Pervasive Computing (RIPE), Softwarepark Hagenberg, Hagenberg (Austria)
1998	Visiting Professor , Università di Genova, Genova (Italy). Dipartimento di Informatica e Science dell'Informazione
Jan–Feb 1995	Visiting Researcher , University of Oregon, Eugene (USA). Computer Science Department
May–Sep 1994	Visiting Researcher , University of Maryland at College Park (USA). Computer Science Department
Aug 1993	Visiting Researcher , Università degli Studi di Torino, Turin (Italy). Dipartimento di Informatica
Feb 1991	Visiting Researcher Università degli Studi di Torino, Turin, Italy. Dipartimento di Informatica

IV. Education and Training

1995	Habilitation, University of Vienna, Austria. Venia Docendi in Computer Science (Fach "Informatik").
1990	PhD Graduation, University of Vienna, academic degree: Dr. rer.soc.oec., passed with distinction ("Mit Auszeichnung").
1987–1990	Doctoral Program in Social and Economic Sciences, University of Vienna, Austria. PhD Thesis: "Modelling and Performance Analysis of Parallel Systems with PRM-Nets" (awarded with the Heinz Zemanek-Preis 1992 for outstanding contributions in Computer Sciences)
1984	Master Graduation, Business Informatics, academic degree: Mag.rer.soc.oec. passed with distinction ("Mit Auszeichnung").
1981–1984	Master Program in Business Informatics, University of Vienna and Technical University of Vienna, Austria.
June 1981	Matura, passed with distinction ("Mit Auszeichnung").
1976–1981	Business College, Bundeshandelsakademie, Oberpullendorf, Austria passed with distinction ("Mit Auszeichnung").
1972–1976	Secondary School, Bundesrealgymnasium, Oberpullendorf, Austria.
1968–1972	Primary School, Volksschule, Kaisersdorf, Austria.

V. Language Skills

German	excellent in speaking and writing (mother tongue)
English	excellent in speaking and writing

VI. Guest Professorships / Research Visits

1998	Università di Genova , Dipartimento di Informatica e Science dell'Informazione Genova, Italy.
1995	University of Oregon , Computer Science Department Eugene, USA.
1994	University of Maryland at College Park , Computer Science Department College Park, USA.
1993	Università degli Studi di Torino , Dipartimento di Informatica Turin, Italy.
1991	Università degli Studi di Torino , Dipartimento di Informatica Turin, Italy.

VII. Memberships

- Member of the ACM (www.acm.org)
- Member of the Austrian Computer Society (OCG, www.ocg.at)
- Member of the GI (Gesellschaft für Informatik e.V., www.gi.de)
- Member of the IEEE (www.ieee.org)
- Member of the ÖWGP (Österreichische Wissenschaftliche Gesellschaft für Produktionstechnik, www.oewgp.at)
- Member of the ITC (Informationstechnologie-Cluster)

- Former Memberships: Member of the ACPC

VIII. Awards and Honors

2018	ÖWGP Zukunftspreis 2018, Project: Attentive Machines
2016	VERENA Award of the national Innovation Award (Nomination)
2012	Mercur (Nomination)
2011	World Summit Award (Nomination)
2011	Innovation Award of the National Multimedia Award (Innovationspreis des Staatspreises für Multimedia und e-Business)
2009	Upper Austrian Innovation Award (OÖ. Landespreis für Innovation 2009)
2009	Cross Border Award (Grenzüberschreitende Technologieplattform Oberösterreich-Niederbayern-Südböhmen)

a) Selected Best Paper Awards

PETRA 2022	Anzengruber-Tanase B., Haslgrübler-Huemer M., Sopidis G., Ferscha A.: Determining Best Hardware, Software and Data Structures for Worker Guidance during a Complex Assembly Task.
PADS 2020	K. Zia, A. Ferscha: An Agent-Based Model of Crowd Evacuation: Combining Individual, Social and Technological Aspects. (Nomination)
COGNITIVE 2019	K. Zia, A. Ferscha and D. Trendafilov: Importance of Coordination and Cultural Diversity for an Efficient and Flexible Manufacturing System.
PhyCS 2018	B. Gollan, M. Haslgrübler, A. Ferscha and J. Heftberger: Making Sense: Experiences with Multi-Sensor Fusion in Industrial Assistance Systems.
PETRA 2018	S. Amrouche, B. Gollan, A. Ferscha and J. Heftberger: Activity Segmentation and Identification based on Eye Gaze Features.
FUTURE COMPUTING 2016	B. Gollan and A. Ferscha: SEEV-Effort - Is it Enough to Model Human Attentional Behavior in Public Display Settings.
AutomotiveUI 2013	A. Riener, A. Ferscha, F. Bachmair, P. Hagmüller, A. Lemmé, D. Muttenthaler, D. Pühringer, H. Rogner, A. Tappe and F. Weger: Standardization of the In-Car Gesture Interaction Space.
ADAPTIVE 2013	M. Kurz, G. Hoelzl and A. Ferscha: On the Utilization of Heterogeneous Sensors and System Adaptability for Opportunistic Activity and Context Recognition.
ICAS 2013	G. Hoelzl, M. Kurz and A. Ferscha: Goal Processing and Semantic Matchmaking in Opportunistic Activity and Context Recognition Systems.
ADAPTIVE 2012	M. Kurz, G. Hoelzl and A. Ferscha: Dynamic Adaptation of Opportunistic Sensor Configurations for Continuous and Accurate Activity Recognition.
PERVASIVE 2002	A. Ferscha, S. Vogl: Pervasive Web Access via Public Communication Walls.
WETICE 2000	A. Ferscha: Workspace Awareness in Mobile Virtual Teams.
WETICE 1999	A. Ferscha, C. Scheiner: Collective Choice in Virtual Teams. (Nomination)
HICSS 1999	A. Ferscha: Optimistic Distributed Execution of Business Process Models. (Nomination)

OTHER PROFESSIONAL ACTIVITIES

IX. Professional Activities

a) Selected Scientific Advisory Boards and Jury Panels

Since 2024	Member of the Project Advisory Board, Lighthouse project KIRAMET
Since 2023	Member of the Project Advisory Board, Fraunhofer Lighthouse project EMOTION
Since 2020	Scientific Advisory Board Member CHASE GmbH
Since 2014	Advisory Board Member Industrie 4.0, BMVIT Advisory Board Member Produktion der Zukunft, BMVIT Advisory Board Member IKT der Zukunft, BMVIT
Since 2005	EC DG Connect
2010-2013	Advisory Board Member Awareness
2006, 2007	DFG Deutsche Exzellenzinitiative Evaluation Panel
2013	CHIST-ERA Evaluation Panel
2013	Multimedia Staatspreis Jury Wien
2013	Advisory Board member SmartProducts, TU Darmstadt
2013/14	Advisory Board member UrbanIXD
Since 2009	DFG Reviewer
Since 2007	Member of the WTNB (Wehrtechnisch-Naturwissenschaftlicher Beirat, Wissenschaftskommission, BMLVS)
Since 2007	Member and Austrian Representative in IFIP TC 10, http://www.ifip.org/bulletin/bulltcs/memtc10.htm
Since 2009	SFI Science Foundation Ireland Panel Member
2004, 2007/08, 2010	Jury member IKT Vienna, ZIT Zentrum für Innovation und Technologie GmbH

b) Selected Review Activities

- Editorial Board Pervasive and Mobile Computing (Elsevier)
- Editorial Board Simulation (SCS)
- IEEE Internet Computing, The IEEE Computer Society Press.
- IEEE Transactions on Computers, The IEEE Computer Society Press.
- IEEE Transactions on Software Engineering, The IEEE Computer Society Press.
- International Journal for Software Engineering and Knowledge Engineering.
- International Journal in Computer Simulation, SCS.
- International Journal on SCIENTIFIC PROGRAMMING, J. Wiley & Sons.
- Journal of Computer and Software Engineering, Kluwer.
- Journal of Information Science and Engineering.
- Journal of Parallel and Distributed Computing, Elsevier.
- Journal of Parallel and Distributed Systems and Networks, IASTED.
- Parallel Computing, North Holland.
- SCS Transactions on Simulation, SCS. (Associate Editor)
- Software Engineering Journal, IEE and BCS.

c) Selected Membership in Academic Committees

2012-2015	Spokesman of Department of Computer Science (Fachbereich Informatik), JKU Linz
Since 2010	Member of the Academic Senate , JKU Linz, Spokesman of the Group of University Professors in the Senate (2022-2025)
Since 2000	Member of the Professorial Faculty , Faculty of Engineering and Natural Sciences, JKU Linz, Spokesman 2010 - 2012
Since 2000	Chair of Institute's Committee (Institutskonferenz), Institute of Pervasive Computing, JKU Linz
Since 2000	Informatik JKU (Fachbereich und ProfessorInnenkurie Informatik)
Since 2000	Member, Substitute Member and/or Chair of working groups, curriculum committees and other committees at JKU Linz (e.g., "Redaktionsgruppe § 99 UG", "Drittmittelgestion", "Reformarbeitsgruppe Zielvereinbarung", "TaskForce Industrie 4.0", "Strategiekommission TNF", "Strategy Process 2022+")
Since 2000	Member in Examination Senates, Habilitation Commissions and professorial appointment procedures at JKU Linz and other universities

X. Selected Conference and Workshop Activities

ACM MobiWac (ACM International Symposium on Mobility Management and Wireless Access)

2006, 2007, 2008, Role: PC Member.

MSWiM (ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems)

2000, 2001, 2002, 2004, 2005, 2006, 2007, 2008, Role: PC Member.

ADAPTIVE (International Conference on Adaptive and Self-Adaptive Systems and Applications)

2014, 2015, 2016, Role: PC Member.

Aml (European Conference on Ambient Intelligence)

2007, Role: Workshop-CoChair.

Annual Simulation Symposium, (IEEE, ACM, SCS)

1995, 1996, 1999, 2000, 2001, 2002, Role: PC Member.

ANT (International Conference on Ambient Systems, Networks and Technologies)

2016, Role: PC Member.

ARCS (International Conference on Architecture of Computing Systems)

2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, Role: PC Member.

Automotive UI (International Conference on Automotive User Interfaces and Interactive Vehicular Applications)

2009, 2010, 2011, 2012, 2013, 2014, Role: PC Member.

DAPI (International Conference on Distributed, Ambient and Pervasive Interactions)

2017, 2018, Role: Program Board

DS-RT (IEEE/ACM International Symposium on Distributed Simulation and Real Time Applications)

2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, Roles: PC Member, PC Chair (2008).

Euro-Par (European Conference on Parallel Computing)

2003, 2006, Roles: Local Chair, Topic Chair

EWSN (Conference on Embedded Wireless Systems and Networks)

2022, Role: Conference Co-Chair

FET'11 (European Future Technologies Conference and Exhibition)

2011, Role: PC Member

HC2 Summer School

2012, 2013, Role: PC Member.

HC2 Visions Workshop (Human-Computer Confluence Research Challenges)

2012, 2013, Role: Co-Organizer.

ICSNC'06 Conference on Systems and Networks Communications

2006, Role: PC Member.

IEA/AIE (International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems)

2013, 2015, Role: PC Member.

IEEE Int. WS on Distributed Simulation and Real Time Applications

1999, 2000, 2001, 2002, 2004, 2005, 2006, 2007, 2008, 2009, 2010, Roles: PC Member, PC Chair (2008).

IoT (ACM International Conference on the Internet of Things)

2017, Roles: Conference Co-Chair.

ISWC (International Symposium on Wearable Computers)

2006, 2007, 2008, 2009, 2011, 2013, 2014, Roles: PC Member, Conference Co-Chair (2008).

IUI (Intelligent User Interfaces)

2006, 2007, 2009, Role: PC Member.

IWSOS (International Workshop on Self-Organizing Systems)

2013, Role: PC Member.

MASCOTS, (IEEE International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems)

1998, 1999, 2000, 2001, 2002, Roles: PC Member, PC Chair (1999).

Next Generation JKU (Lecture Series of the Faculty of Engineering and Natural Sciences in cooperation with Ars Electronica Center Linz)

2017, Roles: Initiator and Organizer.

PADS (Workshop on Parallel and Distributed Simulation)

1998, 1999, 2000, 2001, 2002, Roles: PC Member, PC Chair (1999).

PerComp, Int. WS on Intelligent Environments, ICMB (International Conference on Mobile Business): 2005, 2006, Role: PC Member.

PerDis'16: 2016, Role: PC Member.

PERVASIVE (International Conference on Pervasive Computing)

2004, 2005, 2006, 2007, 2008, Roles: PC Member, Program Chair (2004).

Raising Attention Round Table (National Mobilization Events)

2014, Role: Co-Organizer of two events.

SASO (IEEE International Conference on Self-Adaptive and Self-Organizing Systems)

2014, 2015, Role: PC Member.

UbiComp (ACM International Joint Conference on Pervasive and Ubiquitous Computing)

2003, 2006, 2007, 2013, 2014, 2015, 2016, Roles: PC Member, Workshop Organizer (2014, 2015, 2016).

WETICE (International IEEE Workshops on Enabling Technologies)

2000, 2007, Role: Workshop CoChair

RESEARCH

XII. Current Research Topics

- Pervasive Computing and Ubiquitous Computing
- Artificial Intelligence, Embedded AI, Reinforcement Learning
- Networked Embedded Systems, Embedded Intelligence, Cyber-Physical Systems
- Recognition Architectures, Machine Learning, Pattern Recognition
- Cognitive Systems (Perception, Awareness, Learning), Human Attention
- Collective Adaptive Systems, Complex Systems
- Wireless Sensor/Actuator Systems
- Coordination Models, Calculi, and Languages
- Software Architecture, Distributed Software Systems
- Very Large Scale Parallel and Distributed Discrete Event Simulation

a) Areas of Former Research

- Distributed Interactive Simulation
- CAPSE (Computer Aided Parallel Software Engineering)
- Performance Modeling/Analysis of Parallel Systems
- Queuing Network Modelling, Petri Nets, Stochastic Processes
- Parallel Programming / Visual Programming
- Neural Network Simulation
- Computer Algebra, Symbolic Computation
- Computer Supported Teaching, e-Learning

XIII. Selected Industrial Research Cooperations

AMAG Austria Metall GmbH, ams AG, AUMAYR GmbH, AVL List GmbH, AZO GmbH & Co KG, A1 Telekom, Allgemeine Unfallversicherungsanstalt (AUVA), Beacon Tech Ltd., Coca-Cola Österreich, Energie AG, Engel Austria GmbH, Fischer Sports GmbH, Fronius International GmbH, GAW Group Pildner-Steinburg Holding GmbH, Gebrüder Weiss GmbH, IBM Österreich, KARL STORZ Endoskop Austria GmbH, KEBA AG, Knapp AG, Leistritz Extrusionstechnik GmbH, Lenzing AG, Magna Steyr Engineering AG & Co KG, Magna Steyr Fahrzeugtechnik AG & Co KG, Miba AG, Poloplast GmbH & Co KG, Primetals Technologies Austria GmbH, Recticel Schlafkomfort GmbH - sembella, Red Bull Media House GmbH, Siemens AG Austria/ Germany, Silhouette International AG, System 7 - Railsupport GmbH, TCM International Tool Consulting & Management GmbH, TDK Europe, TRUMPF Maschinen Austria GmbH + Co. KG, Vienna City Marathon, voestalpine Stahl GmbH, Wacker Neuson Beteiligungs GmbH

XIV. Selected Academic Research Cooperations (Joint Projects/Publications)

- Friedrich Bleicher, Gerti Kappel, Schahram Dustdar, Van As R. Harmen, Robert Sablatnig, Christine Strauß, Detlef Gerhard, **TU Wien**, Austria.
- Arnold Baca, Karl F. Dörner, Dimitris Karagiannis, Wolfgang Klas, **Universität Wien**, Austria.
- Wolfgang Maass, Horst Bischof, Kay Römer, Tobias Schreck, Dieter Schmalstieg, Franz Haas, Alexander Felfernig, Wolfgang Bösch, Rudolf Pichler, **TU Graz**, Austria.
- Sarah Spiekerman, Alfred Taudes, Gustaf Neumann, **WU Wien**, Austria.
- Laszlo Böszörményi, Kyandoghene Kyamakya, Heinrich Mayr, Martin Horn, **Alpen-Adria-Universität Klagenfurt**, Austria.
- Dieter W. Fellner, **Fraunhofer Austria Research GmbH**, Austria.
- Paolo Petta, **Austrian Research Institute for Artificial Intelligence**, Austria.
- Michael Rosemann, **Queensland University of Technology**, Australia.
- Salil Kanhere, **University of New South Wales**, Australia.
- Azedinge Boukerche, **University of Ottawa**, Canada.
- Xu Guochang, **Shandong University**, China.
- Heikki Ailisto, Määtä Timo, **VTT Technical Research Centre of Finland**, Finland.
- James L. Crowley, **INRIA Rhone-Alpes**, France.
- Vincent Chapurlat, **Ecole des Mines d'Ales**, France.
- Yves Duc, **IMS**, France.
- Paul Lukowicz, Antonio Krüger, **DFKI GmbH**, Germany.
- Max Mühlhäuser, Matthias Hollick, **TU Darmstadt**, Germany.
- Matthias Kranz, Gerald Hölzl, Bernd Schuller, **Universität Passau**, Germany.
- Robert Tolksdorf, **Freie Universität Berlin**, Germany.
- Jan W. Kantelhardt, **Martin-Luther-Universität Halle – Würzburg**, Germany.
- Albrecht Schmidt, Kurt Rothermel, **Universität Stuttgart**, Germany.
- Michael Beigl, **KIT Karlsruhe**, Germany.
- Klaus Wehrle, **RWTH Aachen University**, Germany.
- Silvia Santini, **TU Dresden**, Germany.
- Adam Wolisz, **TU Berlin**, Germany.
- Wolfgang Broy, Fritz Busch, Wolfgang Kellerer, Alois Knoll, **TU München**, Germany.
- Kristof van Laerhoven, **University of Siegen**, Germany.
- Cormac J. Sreenan, **University College Cork**, Ireland.
- Mirko Viroli, **Alma Mater Studiorum – Università di Bologna**, Italy.
- Alberto Marchetti-Spaccamela, **Università degli Studi di Roma "La Sapienza"**, Italy.
- Anna Carbone, **Politecnico di Torino**, Italy.
- Marco Taisch, Luca Mottola, **Politecnico di Milano**, Italy.
- Giuseppe Riva, **Università Cattolica del Sacro Cuore**, Italy.
- Darwin G. Caldwell, **iit - Istituto Italiano di Tecnologia**, Italy.
- Franco Zambonelli, **Università degli Studi di Modena e Reggio Emilia**, Italy.
- Gian Pietro Picco, **University of Trento**, Italy.
- Akira Uchiyama, **Osaka University**, Japan.
- Leo Selavo, **University of Latvia**, Latvia.
- Krzysztof Kulakowski, Wiesława Sikora, **AGH University of Science and Technology**, Poland.
- Eduardo Tovar, **Polytechnic Institute of Porto**, Portugal.
- Nenad Pavlovic, **University of Nis**, Serbia

- Cai Wentong, **Nanyang Technological University**, Singapore.
- Franc Cus, **University of Maribor**, Slovenia.
- Stephen Dunne, **Starlab Living Science**, Spain.
- Rassul Ayani, Christian Schulte, Onori Mauri, Karl Henrik Johansson, **KTH Royal Institute of Technology**, Sweden.
- Thiemo Voigt, **Uppsala University**, Sweden.
- Olaf Landsiedel, Johan Stahre, **Chalmers University of Technology**, Sweden.
- Marc Langheinrich, **Università della Svizzera italiana**, Switzerland.
- Ricardo Chavarriaga, José del R. Millán, Dimitrios Kyritsis, **Ecole Polytechnique Fédérale de Lausanne**, Switzerland.
- Friedemann Mattern, Dirk Helbing, Gerhard Tröster, **ETH Zürich**, Switzerland.
- Torsten Braun, **University of Bern**, Switzerland.
- Giovanna di Marzo, **Université de Genève**, Switzerland.
- Frank von Harmelen, Jan Treur, Koen G. Langendoen, **Vrije Universiteit Amsterdam**, The Netherlands.
- Jeroen van den Hoven, **Delft University of Technology**, The Netherlands.
- Paul W.P.J. Grefen, **TU Eindhoven**, The Netherlands.
- Prof. Havinga, **University of Twente**, The Netherlands.
- Ben Paechter, Emma Hart, **Edinburgh Napier University**, United Kingdom.
- Jeremy Pitt, **Imperial College London**, United Kingdom.
- Eve Mitleton-Kelly, **London School of Economics and Political Science**, United Kingdom.
- Simon Dobson, **University of St. Andrews**, United Kingdom.
- Stephen Bishop, **University College London**, United Kingdom.
- Adrian Cheek, **City University London**, United Kingdom.
- D K Arvind, **The University of Edinburgh**, United Kingdom.
- Utz Roedig, Hans-Werner Gellersen, **University of Lancaster**, United Kingdom.
- Daniel Roggen, **University of Sussex**, United Kingdom.
- Jon Timmis, **University of York**, United Kingdom.
- Anind K. Dey, Roberta Klatzky, Gary K. Fedder, **Carnegie Mellon University**, USA.
- Gregory Abowd, Montreuil Benoit, Richard Fujimoto, **Georgia Institute of Technology**, USA.
- Allen Malony, **University of Oregon**, USA.
- Joseph A. Paradiso, Alex Pentland, Paettie Maes, **MIT Media Lab**, USA.
- Prof. Marco Gruteser, **Rutgers University**, USA.
- Paul Buhler, **College of Charleston**, USA.
- John A. Stankovic, **University of Virginia**, USA.
- Janos Sztipanovits, **Vanderbilt University**, USA.

XV. Selected EU Contacts

- Wide **Hogehout**, DG CONNECT, Programme Officer, EU policies
- José Luis **Fernández-Villacañas**, DG CONNECT, Future & Emerging Technologies (FET)
- Paul **Hearn**, DG CONNECT, Programme Officer, Future & Emerging Technologies (FET)
- Jean-Marie **Auger**, DG CONNECT, Programme Officer, Future & Emerging Techn. (FET)
- Ales **Fiala**, DG CONNECT, Unit C. 2, Future & Emerging Technologies (FET)
- Roumen **Borissov**, Research Executive Agency, Unit A5
- Walter **van de Velde**, DG CONNECT, Programme Officer - EU policies

XVI. Funded Research Projects

2025-2033	COMET K1 Zentrum Pro²Future II Funding: FFG, Competence Centres for Excellent Technologies – COMET-Zentrum (K1) 2023, Funding decision: Press release (July 3, 2024) Web: https://www.pro2future.at Role: Proposer, Coordinator, Project Leader, Scientific Head
approved (Nov 2024)	FEDAI4Industry Funding: FFG, AI-Region Upper Austria 2024 Partners: Pro2Future GmbH, Fronius International GmbH Role: Project Partner
2024-2027	TextileCycle - Seamless Identity Coding of Textile Fibers for the Value Chain and Product Life Cycle (Project no. FO999915282) Funding: FFG, Digitale Technologien 2023 Partners: Grabher Group, V-Trion Role: Proposer, Coordinator, Project Leader
2024-2027	EMPOWER: Empowered Workers Collaborating with Cognified Machines (Project no. FO999909720) Funding: FFG, Produktionstechnologien, Schlüsseltechnologien für nachhaltige Produktion Ausschreibung 2023 Web: https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2027-2024-empower/ , https://projekte.ffg.at/projekt/5120872 Partners: University of Innsbruck, Alfred Wagner Stahl-Technik & Zuschnitt GmbH, Adaptive Regelsysteme Gesellschaft m.b.H., exoIQ GmbH, OPEXZERO GmbH, Texible GmbH, Gebrüder Weiss Gesellschaft m.b.H. Role: Proposer, Coordinator, Project Leader
2024-2025	StreamingAI – Föderierte Geräte-AI für die Digitale Transformation in der Industrie Funding Contract: Upper Austria – Pro2Future GmbH, commissioned research.
2022-2025	REWAI: Reducing Energy and Waste using AI (Project no. FO999892233) Funding: FFG, IKT der Zukunft, AI for Green 2021 Web: https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2025-2022-rewai/ , https://projekte.ffg.at/projekt/4352956 Partners: Lenzing AG; Pro2Future GmbH; TU Graz Role: Project Partner
2017-2025	COMET K1 Zentrum Pro²Future (Project no. 854184) Funding: FFG, COMET K1 4 th Call (2015 FP1; 2020 FP2), 2017-2021: FP1, 2021-2025: FP2 Web: https://www.pro2future.at , https://projekte.ffg.at/projekt/3891472 Partners: AVL List GmbH, Fronius International GmbH, Technische Universität Graz, Technische Universität München, voestalpine Stahl GmbH, Deutsches Forschungszentrum für Künstliche Intelligenz GmbH, Siemens Aktiengesellschaft Österreich, Primetals Technologies Austria GmbH, KEBA Group AG, et al. Role: Proposer, Coordinator, Project Leader, Scientific Head
Since 2006	Research Studio Pervasive Computing Applications Funding: FFG, Research Studio Programm (2005) Web: https://www.researchstudio.at/studio/pervasive-computing-applications/ Role: Proposer, Scientific Head
2023	Pro ² Future: EBRAIN – EBRAIN Ensembles Partners: Pro2Future GmbH, TU München
2022-2024	Pro ² Future: Devine – Deviation in Evidence Partners: Pro2Future GmbH
2021-2025	Pro ² Future: AI2Human - Using AI for occupational safety and accident prevention Partners: AUVA, Pro2Future GmbH
2021-2025	Pro ² Future: KAL-GISS – Klassifizierung der Spritzgießverfahren Partners: Engel Austria GmbH; Pro2Future GmbH; TU Graz,

- 2021-2024 Pro²Future: GuidelT - **APECGR**: Artificial Personality for Cognitive Guidance and Recommendation Systems
Partners: Fronius International GmbH; Pro2Future GmbH
- 2021-2024 Pro²Future: GuidelT - **RTEL**: Cognitive Rail Track Error Learning
Partners: Pro2Future GmbH; System7 railsupport GmbH
- 2021-2023 Pro²Future: **ReifyAI**: Holistic and Sustainable AI Dev. For Global Changes
Partners: Pro2Future GmbH
- 2021-2022 Pro²Future: GuidelT - **GAP**: Cognitive Guidance for Assembly Processes
Partners: KEBA AG; Pro2Future GmbH
- 2021-2022 Pro²Future: UnderstandHIT - **Fischer4You2**
Partners: FISCHER SPORTS GMBH; Pro2Future GmbH
- 2020-2021 Pro²Future: **Opportunistic Awareness in Assistive Environments**
Partners: Pro2Future GmbH; TU München, Informatik VI - Robotics and Embedded Systems
- 2020-2021 Pro²Future: **HumanAI**: Human Focused AI for occupational safety and accident prevention
Partners: Allgemeine Unfallversicherungsanstalt - AUVA; Pro2Future GmbH
- 2019-2021 Pro²Future: **Fischer4You**: Cognitive Skiing Products
Partners: FISCHER SPORTS GMBH; Pro2Future GmbH
- 2019-2021 Pro²Future: **RTEAS**: Cognitive Rail Track Error Analysis Support
Partners: Pro2Future GmbH; System 7 - Railtechnology GmbH
- 2018-2021 Pro²Future: **SeeIT**: Augmented Work Processes
Partners: KEBA AG; Fronius International GmbH; Trumpf Maschinen Austria; Wacker Neuson; TU Graz: Institut für Technische Informatik; Pro2Future GmbH
- 2018-2021 Pro²Future: **WorkIT**: Workflow and Tool Process Modelling
Partners: KEBA AG; Fronius International GmbH; Trumpf Maschinen Austria; PROFACTOR GmbH; Wacker Neuson; Pro2Future GmbH
- 2018-2021 Pro²Future: **GUIDE**: Guidance and Assistance
Partners: KEBA AG; Fronius International GmbH; Trumpf Maschinen Austria; Wacker Neuson; TU Graz: Institut für Technische Informatik; Pro2Future GmbH; TU Graz Institut für Hochfrequenztechnik
- 2017-2020 **IoT4CPS: Trustworthy IoT for Cyber-Physical Systems (Project no. 863129)**
Funding: FFG, IKT der Zukunft - Leitprojekt IoT 2016
Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2020-2017-iot4cps/>, <https://projekte.ffg.at/projekt/2851050>
Partners: AIT Austrian Institute of Technology GmbH*, AVL List GmbH, Universität für Weiterbildung Krems, Infineon Technologies Austria AG, Technische Universität Wien, Software Competence Center Hagenberg GmbH, et al.
Role: Project Partner
- 2017-2019 **Kids4wearables: SchülerInnen entwickeln intelligente Mode (Project no. 862250)**
Funding: FFG, Talente, Talente regional 2016
Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2019-2017-kids4wearables>, <https://projekte.ffg.at/projekt/2819926>
Partners: Internationale Akademie Traunkirchen*, VS Traunkirchen, VS Gmunden-Stadt, NMS Altmünster, NMS Gmunden-Stadt, Dorfschule Rubenshof, Lenzing AG, Gertraude Stüger (Künstlerin), Interuniversitäres Forschungszentrum für Technik, Arbeit und Kultur (IFZ).
Role: Project Partner
- 2016-2019 **EyeControl: Eye-Controlled Machines (Project no. 855419)**
Funding: FFG, IKT der Zukunft - 4. Ausschreibung (2015)
Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2020-2016-eyecontrol/>, <https://projekte.ffg.at/projekt/1715097>
Partners: Research Studios Austria Forschungsgesellschaft mbh, voestalpine Polynorm GmbH & Co KG, voestalpine Stahl GmbH
Role: Proposer, Coordinator, Project Leader

- 2016-2019 **MinIAttention: Attention Management in Minimal Invasive Surgery (Project no. 851227)**
 Funding: FFG, Bridge 3. Frühphase (2015)
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2019-2016-miniattention/>
 Partners: University of Sussex - Sensor Technology Research Centre, Kepler Universitätsklinikum GmbH, Albert Ludwig Universität Freiburg - Engineering Faculty, KARL STORZ Endoskop Austria GmbH
 Role: Proposer, Coordinator, Project Leader
- 2016-2018 **Pervasive Computing Applications**
 Kooperation JKU-RSA
 Funding: bm:wf
 Role: Proposer, Scientific Head, Coordinator, Project Leader
- 2015-2018 **Attentive Machines: Man and Machines in ICT based Production Systems of the Future (Project no. 849976)**
 Funding: FFG, IKT der Zukunft - 3. Ausschreibung (2014),
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2018-2015-attentivemachines/>
 Partners: Research Studios Austria Forschungsgesellschaft mbH, AUMAYR GmbH, Fischer Sports GmbH
 Role: Proposer, Coordinator, Project Leader
- 2013-2016 **FoCAS: Fundamentals of Collective Adaptive Systems (Project no. 600572)**
 Funding: FP7-ICT-2011.9.12, FET Proactive
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2016-2013-focas/>, <https://cordis.europa.eu/project/id/600572>
 Partners: Università di Modena e Reggio Emilia, Vrije Universiteit Amsterdam, Imperial College London, Edinburgh Napier University*
 Role: Proposer, WP Leader, Project Partner
- 2014-2015 **Pervasive Computing Applications**
 Kooperation JKU-RSA
 Funding: bm:wf
 Role: Scientific Head, Coordinator, Project Leader
- 2011-2015 **Body Contour Estimation (Recommender System Kooperationsprojekt Displays)**
 Funding: Industrial Cooperation
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2015-2011-bodycontourestimation/>
 Partner: RECTICEL Schlafkomfort GmbH
 Role: Project Leader
- 2013-2015 **360Light Experiencing panoramic content in public spaces (Project no. 838547)**
 Funding: FFG Call: Research Studios Austria
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2015-2013-360light/>
 Partners: Studio Pervasive Computing Applications (RSA FG), Red Bull Media House GmbH
 Role: Proposer, Coordinator, Project Leader
- 2013-2014 **Raising Attention (Project no. 840219)**
 Funding: FFG Call: Research Studios Austria
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2014-2013-raisingattention/>
 Partners: Studio Pervasive Computing Applications (RSA FG)
 Role: Proposer, Coordinator, Project Partner

- 2011-2014 **PowerIT (Project no. 830605)**
 Research area: FFG FIT-IT Embedded Systems & Semiconductors
 Funding: FFG Call: Research Studios Austria
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2014-2011-powerit/>
 Partners: Energie AG
 Role: Proposer, Coordinator, Project Leader
- 2011-2013 **Crowd safety in Mass Events**
 Funding: Industrial Cooperation
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2013-2011-crowdsafety/>
 Partner: Vienna City Marathon
 Role: Coordinator, Project Leader
- 2010-2013 **SAPERE: Self-Aware Pervasive Service Ecosystems (Project no. 256873)**
 Research area: FP7-ICT-2009.8.5: Self-awareness in Autonomic Systems
 Funding: FP7 ICT Call-5, FET proactive
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2013-2010-sapere/>, <https://cordis.europa.eu/project/id/256873>
 Partners: Università di Modena e Reggio Emilia*, Université de Genève, The University Court of the University of St Andrews, Alma Mater Studiorum – Università di Bologna.
 Role: Proposer, WP Leader, Project Partner
- 2010-2013 **HC2: Human Computer Confluence Research in Action (Project no. 258063)**
 Research area: FP7- ICT-2009.8.9
 Funding: FP7 ICT Call-5, FET proactive
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2013-2010-hc2/>, <https://cordis.europa.eu/project/id/258063>
 Partners: Starlab Barcelona SL*, Institut de Recherche et de Coordination Acoustique Musique -IRCAM, Università Cattolica del Sacre Cuore.
 Role: Proposer, WP Leader
- 2012 **Sports Community Token**
 Funding: Wiener Wirtschaftsförderungs-Fonds, Industrial Cooperation
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2012-2011-sportscommunitytoken/>
 Partner: Enterprise Sport GmbH
 Role: Coordinator, Project Leader
- 2009-2012 **OPPORTUNITY: Activity and Context Recognition with Opportunistic Sensor Configurations (Project no. 225938)**
 Research area: FP7-ICT-2007.8.0
 Funding: FP7-ICT-2007-C, FET open; Additional funding: bm:wf
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2012-2009-opportunity/>, <https://cordis.europa.eu/project/id/225938>
 Partners: ETH Zürich*, Universität Passau, École Polytechnique Fédérale de Lausanne
 Role: Proposer, Area Leader, Project Partner
- 2009-2013 **SOCIONICAL: Socio-Technical Ambient Intelligence Systems (Project no. 231288)**
 Research area: FP7-ICT-2007.8.4 Science of complex systems for socially intelligent ICT
 Funding: FP7 ICT Call-3, FET proactive; Additional funding: bm:wf
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2013-2009-socionical/>, <https://cordis.europa.eu/project/id/231288>
 Partners: DFKI GmbH*, Universität Passau, Beacon Tech Ltd., London School of Economics, ETH Zürich, Vrije Universiteit Amsterdam, AGH UST Krakow, Universität Würzburg, Fraunhofer FIT, SICE, SmartCare Srl, TU München, et al.
 Role: Proposer, Area Leader, Project Partner

- 2008-2011 **PANORAMA: Pervasive Adaptation Network for the Organisation of the Research Agenda and the Management of Activities (Project no. 213967)**
 Research area: FP7-ICT-2007.8.2, Coordinated Action
 Funding: FP7 ICT, FET proactive
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2011-2008-panorama/>, <https://cordis.europa.eu/project/id/213967>
 Partners: Edinburgh Napier University*, Università di Roma La Sapienza, Imperial College of Science Technology and Medicine, Università di Modena e Reggio Emilia, Institut Telecom.
 Role: Proposer, WP Leader, Project Partner
- 2008-2011 **PowerSaver (Project no. 818898)**
 Research area: Implicit activity-based energy management
 Funding: FFG Call: Neue Energien 2020
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2011-2008-powersaver/>
 Partner: Energie AG
 Role: Proposer, Coordinator, Project Leader
- 2008-2011 **DISPLAYS: Pervasive Display Systems (Project no. 818652)**
 Funding: FFG Call: Research Studios Austria
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2011-2008-displays/>
 Partners: EPAMEDIA, CocaCola Österreich, Enterprise Sports Promotion, Geodan Salzburg, OÖ. Theater und Orchester GmbH
 Role: Proposer, Coordinator, Project Leader
- 2007-2009 **FACT (Flexible Autonomic Context Technologies)**
 Funding: Industrial Cooperation
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2009-2007-fact/>
 Partners: Siemens AG Munich
 Role: Project Leader
- 2009 **CONFLUENCE (Project no. 825332)**
 Funding: FFG
 Role: Proposer, Coordinator
- 2006-2009 **InterLink (International Cooperation Activities in Future and Emerging ICTs, 034051)**
 Research area: IST-2004-2.3.4.1 b8 - IST-2004-2.3.4.1. FET open
 Funding: EU FP 6
 Role: WP Leader
- 2004-2008 **SPECTACLES: Autonomous Wearable Displays (Project no. 809450)**
 Funding: FFG in the FIKT-IT Program, Industrial Cooperation,
 Web: <https://www.jku.at/institut-fuer-pervasive-computing/research/projects/2008-2005-spectacles/>
 Partners: University of Salzburg, SILHOUETTE AG
 Role: Proposer, Coordinator, Project Leader
- 2007-2008 **Technology Barometer**
 Funding: Industrial Cooperation
 Partners: Siemens AG Munich
 Role: Coordinator, PI
- 2006-2008 **BEYOND THE HORIZON (Project no. 006622)**
 Funding: EU FP6, FET Open Call Priority 2 Information Society Technologies
 Web: <http://beyond-the-horizon.ics.forth.gr/>
 Project: ERCIM Contract No. 006622 with the Commission of the European Communities (1st January 2005). Anticipating Future and Emerging Information Society Technologies, in the field of the IST Sixth Framework Programme
 Results: <http://www.ercim.org/publication/policy/BTH-booklet.pdf>
 Role: Leader TC 1: Pervasive Computing and Communications

- 2006-2007 **CRUISE (CReating Ubiquitous Intelligent Sensing Environments, 027738)**
 Research Area: IST-2004-2.4.5 - Mobile and Wireless Systems and Platforms
 Beyond 3G
 Funding: EU FP6, IST
 Role: Partner in Network of Excellence
- 2005-2007 **Digital Graffiti**
 Funding: Industrial Cooperation
 Partners: Department of Software Engineering JKU Linz, Future Lab AEC Linz,
 Siemens Munich
 Role: Project Partner, PI
- 2004-2007 **P2P, Context Framework, Slots/Flame**
 Funding: Industrial Cooperation
 Partners: Siemens AG Munich
 Role: Coordinator, PI
- 2002-2006 **RIPE: Research Institute for Pervasive Computing**
 Funding: Land OÖ
 Role: Coordinator, Scientific Head
- 2003-2005 **JKU Learning Networks (ICT support for situated context aware learning in mobile teams)**
 Funding: Land OÖ, eLearning Offensive JKU
 Role: Proposer, Coordinator, PI
- 2003-2005 **Smart Space**
 Funding: Connect Austria
 Role: PI
- 2002-2004 **Forschungsschwerpunkt Pervasive Computing**
 Funding: Bm:bm, UMF 2002
 Partners: Fachbereich Informatik, JKU Linz
 Role: Proposer, Coordinator, Project Leader
- 2002-2004 **MobiLearn (Media informatics any-time any-where)**
 Funding: BMBWK, Neue Medien in der Lehre
 Partners: Universität Klagenfurt, CS departments at JKU Linz, Technische
 Universität Wien, Universität Wien
 Role: Proposer, Coordinator, Project Leader, PI
- 2001-2004 **P2P, Context Framework, PPU, interAgents**
 Funding: Industrial Cooperation
 Partners: Siemens AG Munich
 Role: Coordinator, PI
- 2002-2003 **Wireless Campus**
 Funding: Bm:bm
 Role: Proposer, Coordinator, Project Leader
- 2002-2003 **VRIO: Virtual Reality I/O**
(Speech recognition unit for natural interaction with immersive and pervasive multi-user cooperative environments)
 Funding: Land OÖ
 Partners: ARGE Institut für Praktische Informatik (Prof.Ferscha) and Institut für
 Technische Informatik (Prof. Volkert) JKU Linz, IBM Upper Austria
 Role: Proposer, Co-Project Leader
- 2000- **Real Time Notification**
 Funding: Industrial Cooperation
 Role: Project Leader
- 2003 **Umedia (European Multimedia Research Initiative)**
 Funding: EU FP6 IST
- 2001-2003 **INSTAR (Information and navigation through augmented reality)**
 Research area:
 Funding: Industrial Cooperation

- Partners: Department of Software Engineering JKU Linz, Future Lab AEC Linz, Siemens Munich
 Role: Project Partner, PI
- 2001-2002 **FIT-IT Advisory Group Embedded Systems (Recommendation for a national scientific advance research programme)**
 Funding: BMVIT
 Partners: Team of Experts from Academia and Industry
 Role: Project Leader
- 2001-2002 **WebWall**
 Funding: Connect Austria
 Role: Proposer, Coordinator, Project Leader
- 2000-2002 **ACCELERATOR Gmunden**
 Concept and Feasibility Study for a center for IT Leadership
 Funding: Government
 Partners: Inst. f. Praktische Informatik, JKU Linz, Land Oberösterreich, Gemeinde Gmunden
 Role: Proposer, Coordinator, Project Leader
- 2000 **Mobile Internet Services: Web Based Community Information Systems**
 Funding: Industry
 Project Consortium: Inst. f. Praktische Informatik, JKU Linz, Enterprise Sport Promotion
 Role: Project Leader
- 1998-2000 **BISANTE (Broadband Integrated Satellite Network Traffic Evaluation)**
 Funding: EU ESPRIT IV
 Project Consortium: Inst. f. Informatik und Wirtschaftsinformatik - Dept. of Distributed Systems (Univ. Vienna), Thomson CSF (France)*, INT (France) University of Surrey (UK), Netway (Austria), SOLINET (Germany)
 Role: Co-Proposer, Co-Worker
- 1999 **Web Concept Vienna City Marathon: Web Based Community Information Systems**
 Funding: Industry
 Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), Enterprise Sport Promotion
 Role: Project Leader
- 1998-1999 **COOPERATE: Distributed Multiuser Cooperative Work Environments (Reference Project)**
 Funding: BMWV
 Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), Univ. Linz (Prof. Volkert J., Prof. M. Mühlhäuser), Univ. Salzburg (Prof. P. Zinterhof), Industrial Partners
 Role: Proposer, Coordinator, Project Leader
- 1998-1999 **Virtual Enterprise. Enabling technologies for a generic, multipurpose virtual enterprise server.**
 Funding: ONB
 Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna)
 Role: Proposer, Project Leader (Univ. Vienna)
- 1998-1999 **Distributed Simulation of Multiagent Systems**
 Funding: British Council
 Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), University of Exeter (Prof. Turner S.)
 Role: Proposer, Project Leader (Univ. Vienna)
- 1998-1999 **Network Computing (TEMPUS)**
 Funding: EU Tempus

- Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), EU Consortium
Role: Co-Proposer, Project Partner
- 1997-1998 **VRÖIG: Initiative "Virtuelle Realität" für die Österreichische Informationsgesellschaft**
Funding: BMWV
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), JKU Linz, Univ. Salzburg, BMWV
Role: Proposer, Coordinator, Primary Investigator (Univ. Vienna)
- 1993-1998 **MATCH (Modelling and Analysis of Time Constrained and Hierarchical Systems)**
Funding: EU - Human Capital and Mobility
Partners: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), Eindhoven University of Technology, Universität Hamburg, Universite Pierre et Marie Curie, Paris (C. Girault), Università degli Studi di Torino (G. Balbo, Chiola G.), Universidad de Zaragoza (M. Silva)
Role: Co-Proposer, Coordinator, Project Partner
- 1995-1996 **Parallel Simulation of Very Large Office Workflow Models**
Funding: Jubiläumsfondprojekt Nr. 5069, Österreichische Nationalbank
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna)
Role: Proposer, Coordinator, Project Leader
- 1994-1996 **Parallel Simulation Techniques**
Funding: BMWF/British Council Academic Research Collaboration
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), University of Exeter (Prof. Turner S.)
Role: Proposer, Coordinator, Project Leader (Univ. Vienna)
- 1991-1996 **PAPS: Performance Analysis of Parallel Systems**
Funding: FWF Research Grant No. S5303-PHY, (Austrian Center for Parallel Computation)
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna)
Role: PI (Univ. Vienna)
- 1994-1995 **Distributed Simulation on High Performance Parallel Computer Architectures**
Funding: Scientific-Technical Cooperation Austria-Italy, ()
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), Università di Genoa (Prof. Chiola G.)
Role: Proposer, Project Leader (Univ. Vienna)
- 1993-1995 **CAPSE: Computer Aided Parallel Software Engineering**
Funding: Research Project BMWF GZ. 613.562/1-II/6/93
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), Inst. f. Graphische Datenverarbeitung und Parallele Systeme (Univ. of Linz)
Role: Co-Proposer, PI (Univ. Vienna)
- 1993-1995 **Performance Analysis of Parallel Systems and their Workload**
(Central European Initiative (CEI-): Work Package 3:)
Funding: Research Project BMWF GZ. 308.926/1-IV/3/93, ()
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme - Advanced Computer Engineering Dept. (Univ. Vienna), University of Pavia (Prof. M. Calzarossa), Polytechnico di Milano (Prof. G. Serazzi), Universität Wien (Prof. H. Zima)

- 1993-1995 Role: Co-Proposer, Work Package Leader
Parallel Visual Programming: Central European Initiative: WP6
Funding: Research Project BMWF GZ. 308.926/1-IV/3/93
Project Consortium: Inst. f. Angewandte Informatik und Informationssysteme -
Advanced Computer Engineering Dept. (Univ. Vienna)
Role: Co-Proposer, WP Leader
- 1992-1994 **MONIT: Measurement and Monitoring of Parallel Processing Systems**
Funding: BMWF
Project Consortium: Inst. f. Statistik und Informatik, Abt. f. Angewandte Informatik
(Univ. Vienna), Slovak Academy of Sciences Bratislava
Role: Co-Proposer, PI (Univ. Vienna)
- 1990-1992 **Distributed Simulation of Petri Nets**
Funding: Research Project BMWF GZ. 613.525/2-26/90
Project Consortium: Inst. f. Statistik und Informatik, Abt. f. Angewandte Informatik
(Univ. Vienna)
Role: Proposer, Project Leader (Univ. Vienna)
- 1986-1988 **Computer Aided Instruction**
Funding: Research Project BMWF GZ. 52.979/1-6/86
Project Consortium: Inst. f. Statistik und Informatik, Abt. f. Angewandte Informatik
(Univ. Vienna)
Role: Co-Proposer, PI

XVII. Scientific Talks and Invited Presentations

- November 11, 2024 Panel discussion: Artificial Intelligence – Game Changer for the Industry?
Treffpunkt Wissenschaft (ORF OÖ, IV OÖ)
- October 24, 2024 Invited Keynote, **AI for Industry: Federated, Sustainable and Human-centered**, 12th Research Networking Day, AVL ITS Research & Technology Management, Leibnitz, Austria.
- October 16, 2024 **Effortless Identity Management for a Circular Textile Economy**
Invited Talk, Millenium Innovation Days, Lustenau, Austria.
- September 5, 2024 **Federated Neuromorphic Thinking**, 9th Pro²Future Partner Conference, Linz, Austria.
- May 06, 2024 **Human Empowerment through AI. Pro²Future II**, Pro²Future 2nd Scientific Symposium on Cognitive and Sustainable Products and Production Systems, Linz, Austria.
- April 05, 2024 **AI zerbricht**, JKU Open House, Linz, Austria.
- April 03, 2024 **Kognitive Medizintechnik. Panel Discussion**, 9. JKU medTALK, Linz, Austria.
- April 02, 2024 Invited Talk, **Streaming AI**, Industrie im Dialog: Game Changer KU - Die Zukunft des IT-Standortes OÖ, Linz, Austria.
- March 14, 2024 Invited Talk, **On-Device AI for Industry**, Linz connects IT & Economy, Linz, Austria.
- November 07, 2023 **Cognitive Systems**, LIT AI Lab Event, Linz, Austria.
- September 13, 2023 **What's Missing from Contemporary AI? Pro²Future Epoche II**, 8. Pro²Future Partner Conference, Graz, Austria.
- November 10, 2022 Invited Talk, **Can Machines Think?** A1 Telekom Austria AG, OneTEC Future Shots, Vienna, Austria.
- November 2, 2022 Invited Keynote, **Industrial Innovation Post Digitalisation**, ISM 2022, Hagenberg, Austria.
- October 5, 2022 **Conference Closing Address**, EWSN 2022, Linz, Austria.
- October 4, 2022 **A World in Crises. Opening Speech**, EWSN 2022, Linz, Austria.
- June 22, 2022 Invited Talk, **Innovation entsteht, wenn Menschen es wollen**, RSA FG: Rethinking Innovation: Applied Research That Matters, Salzburg, Austria.
- June 13, 2022 Invited Talk, **Tiny Embedded Intelligence - Heavily Resource Restricted AI**, NEXTGEN TRAINING TECHNOLOGIES - Industrial Conference, Vienna, Austria.
- May 13, 2022 Invited Talk, **Nachhaltige Produktion**, Intertool 2022, Wels, Austria.
- April 29, 2022 Invited Lecture, **Smart Garments :: Intelligence Woven into the Fabric of Everyday Life**, course "WHAT IF ... Shaping our future" (715.001, 2022S), JKU Linz, Austria.
- March 8, 2022 **Produkte mit kognitiven Fähigkeiten - Miniaturisierte, eingebettete KI**, OÖ Zukunftsforum 2022, Linz, Austria.
- October 12, 2021 **Cognitive Products**, Besuch Wissenschaftsdelegation Aachen, Linz, Austria.
- October 05, 2021 Invited Keynote, **The Cognification of Things**, Doctoral Colloquium of the LMU Medieninformatik, Venice, Italy.
- September 30, 2021 Invited Keynote, **Cognitive Wearables: Embedded AI Systems Assisting Workers**, Millenium Innovation Days #2021, Lustenau, Austria.

- Augst 25, 2021 Invited Talk, **Kognitive Industriesysteme**, Werkstoffworkshop 2021 – Industrie 5.0 (Europäisches Forum Alpbach), Alpbach, Austria.
- June 22, 2021 Invited Talk, **Kognitive Industriesysteme**, UAR Innovation Network 360°, Online, Austria.
- March 17, 2021 Presentation of the **ÖWGP Positionspapier 2021**, Beirat der FTI-Initiative „Produktion der Zukunft“, Online, Austria.
- November 10, 2020 Invited Talk, **Cognitive Products**, KC Treffpunkt Digitalisierung #4, Online, Austria.
- November 05, 2020 Invited Talk, **Technology Matters! IV OÖ: Industrie im Dialog: Corona als Technologieturbo**, Online, Austria.
- January 23, 2020 Invited Keynote, **Aware Systems: Reversing Interaction Principles**, International Workshop Conference on Digital Intelligence and Aware Systems: Interactive Music Technologies, St. Gilgen, Austria.
- November 20, 2019 **Cognitive Load in Laparoscopic Surgery**, 5. Kepler Science Day, Linz, Austria.
- October 24, 2019 Invited Talk, $T_1^2 / T_2^2 = a_1^3 / a_2^3$, Jubiläumssymposium 400 Jahre Keplers Buch, Linz, Austria.
- June 18, 2019 Invited Keynote, **Ich bitte um Ihre Aufmerksamkeit! Wahrnehmungsgesteuerte Selbstanpassung zukünftiger IT-basierter Produktionssysteme**, Production & IT Konferenz, Linz, Austria.
- May 14, 2019 **Moderation IT-Kolloquium: Intelligente Roboter in Interaktion mit Menschen**, Vienna, Austria.
- May 08, 2019 Invited Keynote, **Cognitive IT: The Dawn of the Age of Machine Thinking**, ComputationWorld 2019, Venice, Italy.
- May 07, 2019 Paper Presentation, **Cognitive Products: System Architecture and Operational Principles**, Cognitive 2019, Venice, Italy.
- January 31, 2019 Invited Talk (with F. Bleicher), **Smarte Produktion, SMARTE PRODUKTION: Was die Vernetzung von Maschinen, Services und Menschen bringt (DBT)**, Vienna, Austria.
- October 31, 2018 Invited Talk, **Shaping the cognitive productions systems of the future**, IndTech 2018, Vienna, Austria.
- October 15, 2018 Short presentation, **Pro²Future**, Workshop des UAR Innovation Networks, Linz, Austria.
- October 02, 2018 Panel discussion, **Intelligent Cognitive Systems**, AVL Strategic Research Partnership, Graz, Austria.
- September 18, 2018 Keynote, **The Future of Products and Production Systems is Cognitive**, Pro²Future in Progress, Linz, Austria.
- June 20, 2018 Invited Talk, **IoT in a Nutshell**, Future in a Nutshell, Sattledt, Austria.
- May 29, 2018 Short presentation, **Pro²Future** (5 minutes/ 1 slide), FFG Forum Produktion 2018, Graz, Austria.
- May 08, 2018 Interview, **Auf den Spuren Keplers in Linz**, Wissenschaftsempfang anlässlich des Johannes Kepler Jubiläums, Linz, Austria.
- April 26, 2018 Invited Talk, **Spotlight 5 - IoT, the thinking things**, ECSEL-Austria Conference 2018, Linz, Austria.
- March 15, 2018 Invited Talk, **Common Research Program CDP-Pro²Future**, Opening Event Austrian Center for Digital Production, Vienna, Austria.

- February 08, 2018 Invited Talk, **Pro2Future: Produkte und Produktionssysteme der Zukunft werden denken!** 2. JKU-Transfertag Intelligente Produktion, Linz, Austria.
- July 05, 2017 Invited Keynote: **Spatial Abstractions for Individuals in Superorganisms**, AGIT 2017, Salzburg, Austria.
- May 16, 2017 Invited Plenary Statement and Discussion, **Fourth Round of Plenary Discussions: Digitalisation and innovation – how new technologies can help to overcome economic barriers**, Towards the Vision of a Common Economic Space from Vancouver to Vladivostok: Connectivity, Trade and Economic Cooperation, Linz, Austria.
- May 09, 2017 Invited Panelist, **Panel Statement and Discussion**, AEC Innovationstag, Linz, Austria.
- May 09, 2017 Invited Talk, **Socio-Inspired ICT**, Reinventing Society - CSH Workshop, Vienna, Austria.
- May 04, 2017 Invited Keynote, **Tatort Digitalisierung: Menschliche Motive und ihre symbiotischen IT-Systeme**, Tiroler IT-Day, Innsbruck, Austria.
- April 06, 2017 Invited Talk, **Industrie 4.0 - Digitalisierung der Arbeitswelt**, Industrie 4.0 – Digitalisierung der Arbeitswelt, Linz, Austria.
- February 09, 2017 Invited Talk, **Future & Emerging ICT: Innovationen mit dem Ziel, Menschen zu dienen**, Taking Innovation from Universities to Markets, St. Gilgen, Austria.
- January 25, 2017 Invited Keynote, **Business and Technologies Going Green**, OSCE Chairmanship Business Conference, Vienna, Austria.
- January 18, 2017 Invited Keynote, **Cognitive Collective Adaptive Systems**, ANDRITZ Global Talent Program, Vienna, Austria.
- January 09, 2017 Invited Talk, **Future & Emerging ICT – Innovationen mit dem Ziel, Menschen zu dienen**, RSA Teamklausur 2017, St. Gilgen, Austria.
- December 05, 2016 Panel Discussion, **Aufmerksamkeit im OP**, Medizinische Forschung im Zeichen der Kooperation, Linz, Austria.
- November 09, 2016 Invited Talk, **Trends in der Digitalisierung**, IndustryTech 2016, Zell am See, Austria.
- October 19, 2016 **IKT der Zukunft - Projektserie IPC**, Kick-Off für die aktuelle FFG Ausschreibung aus "IKT der Zukunft", Linz, Austria.
- October 04, 2016 Invited Talk, **Cyberphysische Produkte und Produktionssysteme**, Salzburg Business Opening, Salzburg, Austria.
- October 03, 2016 **Das Internet der Dinge**, Workshop I des IGF Austria, Wien, Austria.
- September 15, 2016 Invited Keynote, **Verschränkte Welt: Die Separierung der "Physischen" von der "Digitalen" Welt ist obsolet!** 30 Jahre VÖSI, Vienna, Austria.
- August 30, 2016 Invited Talk, **Perspektiven der physisch-digitalen Systeme der Zukunft**, SKF Führungskräfte-Dialog, Steyr, Austria.
- July 15, 2016 Invited Keynote, **May I Have Your Attention, Please?** ICCHP 2016, Linz, Austria.
- June 8, 2016 Invited Keynote, Siemens Executive Summit **"On the way to Industrie 4.0 - Driving the Digital Enterprise"**, Mondsee, Austria.
- May 12, 2016 Invited Keynote: **Cyber-Physical Industrial Systems**. TechTrend, AVL List GmbH Research & Technology, Graz, Austria.
- April 28, 2016 TV program: OÖ Heute: **Computer überwachen Aufmerksamkeit**, ORF OÖ, Austria.

April 19, 2016 **FoCAS WP5 Presentation**, Final Review, Brussels, Belgium.
 April 14, 2016 Panel discussion: **Virtual Reality**, AEC/ Die Presse, Linz, Austria.
 April 13, 2016 Invited Keynote: **Cyber-Physical Products and Production Systems**.
 Industrie 4.0 - N 4.0 vernetzt wirtschaften, St. Pölten, Austria.
 April 7, 2016 Invited Conference Keynote: **Cyber-Physische Produkte und
 Produktionssysteme**, Internationales Forum Mechatronik, Augsburg,
 Germany.
 April 6, 2016 Panel discussion: **FutureTalk**, Academia Superior/ Die Rundschau, Linz,
 Austria.
 April 4, 2016 Invited talk: **Vortrag zu Industrie 4.0**, TU München, München, Germany.
 February 11, 2016 TV program: OÖ Heute: **Computer erkennt menschliche Absichten**, ORF
 OÖ, Austria.
 February 4, 2016 Invited Keynote: **Attentive Things**, WARM'16, Graz, Austria.
 January 13, 2016 Invited Keynote: **Foundations and Engineering of Collective Adaptive
 Systems**, Workshop on Research Challenges in Modeling & Simulation for
 Engineering Complex Systems, Arlington, Virginia, USA.
 November 11, 2015 Invited Conference Keynote: **ATTENTION: Aufmerksamkeits-sensitive
 minimal-invasive Chirurgie**, Science Days 2015, Linz, Austria.
 October 28, 2015 TV program: OÖ Heute: **Von den Augen abgelesen**, ORF OÖ, Austria.
 October 22, 2015 Invited Conference Keynote: **Menschenbewusste Maschinen - Was
 Maschinen über uns wissen sollten**. 4. Redtenbacher Symposium: Die
 Macht der Phantasie, Steyr, Austria.
 October 15, 2015 Invited Conference Keynote: **Aware Systems: Findings and Challenges**,
 Austrian Computer Science Day 2015, Vienna, Austria.
 October 8, 2015 Invited Conference Keynote: **Cyberphysische Produkte und
 Produktionssysteme - eine Forschungsherausforderung**, Symposium
 Industrie 4.0 / Konferenz der Nationalen Clusterplattform Österreich, Linz,
 Austria.
 September 7, 2015 Invited talk: **CAS Research Agenda**, Ubicomp'15: Workshop Collective
 Adaptation in Very Large Scale Ubicomp: Towards a Superorganism of
 Wearables, Osaka, Japan.
 August 28, 2015 Invited Keynote: **Cyber-Physical Products**, European Forum Alpbach
 2015, Alpbach, Austria.
 July 30, 2015 Radio program: Ö1 Radiokolleg: **Schwarmintelligenz**, ORF Ö1, Austria.
 June 25, 2015 Invited Conference Keynote: **What is "Industrie 4.0"?**, voestalpine
 Synergieplattform, Linz, Austria.
 June 9, 2015 Invited talk: **Entwicklung der Informatik**, OCG Jahrestagung, Vienna,
 Austria.
 June 2, 2015 Invited Conference Keynote: **Awareness as a Mechanism of
 Coordination in Planetary Scale Distributed Systems**. DisCoTec 2015:
 10th International Federated Conference on Distributed Computing
 Techniques, Grenoble, France.
 May 7, 2015 Position statement: **Presentation of Industry 4.0 Competences of JKU**,
 Linz, Austria.
 March 31, 2015 Position statement: **Towards Real World 360°**, Red Bull Media House,
 Wals, Austria.
 March 15, 2015 Invited Keynote: **Social Physics - How Information Spreads**. Media &
 Lifestyle Summit 2015, Zürs, Austria.

March 10, 2015 Invited Conference Keynote: **Produkte der Zukunft**. Innovations-Tag 2015, WKOÖ, Linz, Austria.

February 12, 2015 Invited Conference Keynote: **Aware ICT**. PECCS 2015: 5th International Conference on Pervasive and Embedded Computing and Communication Systems, Angers, France.

January 23, 2015 Invited Conference Keynote: **Endoskopie und Aufmerksamkeit**. ENDO Linz 2015, Linz, Austria.

January 13, 2015 **FoCAS WP5** PY2, FoCAS Executive Meeting, Amsterdam, The Netherlands.

January 10, 2015 Invited talk: **Pervasive Computing Applications - A Cognitive Computer Science Perspective**. RSA Forschungsklausur, St. Gilgen, Austria.

January 9, 2015 Invited talk: **Big Data - Neue Erkenntnisse für Innovationen**. RSA Forschungsklausur, St. Gilgen, Austria.

November 27, 2014 Invited Conference Keynote: **Fundamentals of Collective Adaptive Systems**, ETH Zurich, Zurich, Switzerland.

November 18, 2014 Invited Conference Keynote: **Kognitive Assistenz**. Pro2Future Workshop, Linz, Austria.

November 18, 2014 Invited talk: **Themenfelder Forschung**. Pro2Future Workshop, Linz, Austria.

November 3, 2014 Position statement: **Beitrag Expertendialog**. Smart Factory - Produktionsforschung in OÖ, Linz, Austria.

November 3, 2014 Position statement: **Input im Expertendialog**. 3. Innovation Round Table, Linz, Austria.

October 27, 2014 Invited talk: **Themenpräsentation Mensch in der Produktion**. Österreichische Plattform Industrie 4.0, Vienna, Austria.

September 13, 2014 Invited Conference Keynote: **Collective Wristwear: The World in the Hands of Humankind**. Ubicomp'14: Workshop on The Superorganism of Massive Collective Wearables, Seattle, Washington, USA.

September 11, 2014 Invited Conference Keynote: **Sensor Based Activity Recognition - A Pervasive Computing Perspective**, dvs Sportinformatik, Vienna, Austria.

September 10, 2014 Invited talk: **"Will the Data Deluge Makes the Scientific Method Obsolete?"**, 45. Innovationspool, Scheibbs, Austria.

July 2, 2014 Invited talk: **Sozio-Technische Systeme**, IT Summit 2014, Linz, Austria.

July 2, 2014 Discussion statement: **Szenarien Digitaler Transformation**, IT Summit 2014, Linz, Austria.

June 24, 2014 **Pro2Future** (Presentation Research Strategy), Production of the Future - Products for Needs, IV OÖ, Linz, Austria.

June 5, 2014 Discussion statement: **Industrie 4.0 - eine Mensch-Technik-Kooperation**, Linz, Austria.

June 4, 2014 Invited talk: **From Context Awareness to Socially Aware Computing**, Imagine14, Vienna, Austria.

June 3, 2014 **Aktionsfeld: Men & Machines in Production**, Plattform Industrie 4.0 Austria, Vienna, Austria.

May 27, 2014 Invited talk: **Cyber-Physical Things: Connecting Bits and Atoms!**, Cyber Physical Systems - Workshop, Linz, Austria.

May 22, 2014 **Human Computer Interaction Perspective**, Raising Attention Academic Round Table, Vienna, Austria.

- May 14, 2014 Position statement: **JKU Production Research**, EIT KIC AVM, Vienna, Austria.
- May 13, 2014 **ICT for Intelligent Production** (Moderation), Informationstechnisches Kolloquium, Vienna, Austria.
- May 6, 2014 Invited talk: **HABA - MABA**, Business.Brunch, Linz, Austria.
- April 29, 2014 Position statement: **JKU Production Research**, Roundtable Industrie 4.0 Austria, Vienna, Austria.
- March 23, 2014 Invited talk: **May I have Your Attention, Please!** Media+Lifestyle Summit 2014, Zürs, Austria.
- March 16, 2014 Radio program: **Mangelware Aufmerksamkeit: Vom Umgang mit einer kostbaren Ressource**, Ö1: Matrix, Austria.
- February 4, 2014 **Developing a Research Roadmap for the Future of Production**, JKU Internal Solicitation Workshop: Production Research – a JKU Priority, Linz, Austria.
- February 2, 2014 **Mobile App Development**, VCM 2014, Vienna, Austria.
- January 31, 2014 Invited Conference Keynote: **Why the Symbiosis of Society and Technology is a Complex Matter**, 9th International Conference on Applied Informatics (ICAI 2014), Eger, Hungary.
- January 20, 2014 Keynote: **Opening Keynote**, Raising Attention Industrial Round Table, Vienna, Austria.
- January 7, 2014 FoCAS WP5: **International Collaboration**, FoCAS Executive Meeting, London, United Kingdom.
- November 27, 2013 Keynote: **Attention, please!** Festveranstaltung 35 Jahre A1 Technologiezentrum Arsenal, Vienna, Austria.
- October 23, 2013 Invited talk: **Kognitive und soziale IKT**, IKT der Zukunft – Netzwerke der Information, Vienna, Austria.
- October 11, 2013 Invited talk: **Pervasive Computing: Smart Homes**, KTH Stockholm, Stockholm, Sweden.
- October 3, 2013 Invited talk: **Formal and computational models of socio-inspired ICT**, European Conference on 'Tackling societal challenges with Social Collective Intelligence and ICT!', Brussels, Belgium.
- September 16, 2013 Invited talk: **Quality of Life Technologies – Lebensqualität bis ins hohe Alter**, Dialog an Board (MS Wissenschaft), Linz, Austria.
- September 8, 2013 Invited lecture: **Human Computer Confluence – Towards a Pervasive Symbiosis of Society and Technology**, UbiComp 2013 Doctoral School, Zurich, Switzerland.
- September 4, 2013 **Medizinbezogene Stärkefelder der JKU Informatik**, Pressekonferenz "MS Wissenschaft", Linz, Austria.
- July 17, 2013 Invited lecture: **Human Computer Confluence – Unbreakable Ties in the Symbiosis of Society and Technology**, HCC Summer School 2013, Paris, France.
- June 21, 2013 Videostatement: **About supporting projects translational activities towards industrial applications**, 1st FET2020 Conference, London, United Kingdom.
- June 21, 2013 **COFET BS** Innovation Community Report, 1st FET2020 Conference London, United Kingdom.
- June 13, 2013 Poster presentation: **Socio-inspired ICT**, CHIST-ERA Conference, Brussels, Belgium.

May 24, 2013 Invited talk: **ICT Quo Vadis?** OCG Präsidiumsklausur, Vienna, Austria.

May 7, 2013 **Beitrag zur Paneldiskussion**, IKT Trends 2020: Elektronik aus Europa, Vienna, Austria.

March 26, 2013 **Interview** with Alois Ferscha, Social-IST Workshop, Venice, Italy.

March 21, 2013 **SAPERE WP5** Presentation, SAPERE Consortium Meeting, Modena, Italy.

March 14, 2013 **Pervasive Computing: Die besten Computer sind jene, die verschwinden!** JKU-TEC-Talk, Linz, Austria.

February 13, 2013 Invited talk: **Socio-inspired ICT**, FuturICT Workshop, MIT Media Lab, Boston, USA.

February 8, 2013 Invited talk: **Pervasive Computing: Man sieht sie nicht, aber sie sind unter uns!** MINT - Freie Universität Bozen, Bozen, Italy.

December 7, 2012 **Collective Awareness - Models and Dynamics**, FuturICT Meeting (in line with SocInfo 2012), Lausanne, Switzerland.

September 20, 2012 Invited talk: **The future of attention aware digital signage systems**, Digital Signage Conference, Munich, Germany.

September 18, 2012 OPPORTUNITY Review Meeting **Highlight Presentation**, OPPORTUNITY Review Meeting PY3, Linz, Austria.

September 18, 2012 OPPORTUNITY Review Meeting **System Demonstration**, OPPORTUNITY Review Meeting PY3, Linz, Austria.

September 13, 2012 **Collective Attention through Public Displays**, SASO 2012, Lyon, France.

September 10, 2012 **Privacy in the cloud**, DOA-SVI 2012, Rome, Italy.

September 10, 2012 **Goal-Oriented Opportunistic Sensor Clouds**, 2nd International Symposium on Secure Virtual Infrastructures (DOA-SVI'12), Rome, Italy.

July 18, 2012 Invited lecture: **Human Computer Confluence - Towards a Flourishing Symbiosis of Society and ICT**, Summer School on Human Computer Confluence, Milan, Italy.

May 15, 2012 **From Individual to Collective Attention - Models and Dynamics**, Workshop HC2 Visions: Human Computer Confluence Research Challenges, Vienna, Austria.

May 9, 2012 Invited talk: **Spectacles - Personal Displays for Everyone**, NextBerlin 2012, Berlin, Germany.

April 27, 2012 **PowerSaver - Lassen Sie abschalten?** Lange Nacht der Forschung, Linz, Austria.

March 29, 2012 **ASSYST**, COSI-ICT Workshop, Brussels, Belgium.

March 20, 2012 Invited talk: **The Web may be dead, but Internet is everywhere!**, Media+Lifestyle Summit 2012, Zürs, Austria.

January 30, 2012 **Pervasive Computing - die besten Computer sind jene, die verschwinden**, JKU-TEC-Talk, Linz, Austria.

January 23, 2012 **From awareness to adaptation: large scale recognition and opportunistic configuration**, Awareness Inter-Project Day, Bologna, Italy.

November 24, 2011 **Future ICT: Eintrittswahrscheinlichkeit mal Ereignisschwere**, Linz, Austria.

November 11, 2011 **An Idea is worth nothing - innovation needs a plan!** WSYA, Graz, Austria.

October 17, 2011 Invited presentation: **Very Large Scale Agent Based Simulation: Cognitive Decision Making**, MACH Dedication at JKU Linz, Linz, Austria.

May 19, 2011 Invited presentation: **Vom Verschwinden des Computers und dem Aufkommen eingebetteter Assistenzlösungen**, Festvortrag beim

- grenzüberschreitenden Innovationstag mit Cross Border Award Verleihung, Germany.
- May 17, 2011 Invited presentation: **User Heaven or Techno Hell: Where are intelligent, adaptive technologies leading us?** London, United Kingdom.
- April 14, 2011 OPPORTUNITY Review Meeting **System Demonstration**, OPPORTUNITY Review Meeting PY2, Linz, Austria.
- April 12, 2011 OPPORTUNITY Review Meeting **Highlight Presentation**, OPPORTUNITY Review Meeting PY2, Linz, Austria.
- November 22, 2010 **Trust in socio-technical systems**, PerAda Workshop on Security, Trust and Privacy, Rome, Italy.
- November 11, 2010 Keynote: **Implicit Interaction**, Aml 2010, Málaga, Spain.
- November 8, 2010 Keynote: **Pervasive Computing in the Large: Socio-Technical Fabric**, iiWAS 2010, Paris, France.
- October 15, 2010 Invited talk: **Scenario Based Modeling for Very Large Scale Simulations**, Perform 2010: Workshop Performance Evaluation of Computer and communication Systems, Vienna, Austria.
- October 9, 2010 Keynote: **Pervasive Computing: What Next?** IEEE CISIM 2010, Cracow, Poland.
- September 30, 2010 Invited talk: **Cooperative Digital Artefacts**, ifi Colloquium, Universität Zürich, Zürich, Switzerland.
- September 9, 2010 **Total vernetzt - noch nichts gelernt!** Fernausbildungskongress der Bundeswehr, Helmut Schmidt Universität, Hamburg, Germany.
- May 19, 2010 **Intelligente Außenwerbung: Uninspirierte Vision führt in der Regel zu uninspirierter Technik!** Intelligente Werbetechnologien- Was weiß Werbung?, Linz, Austria.
- May 5, 2010 Invited talk: **Kontext- und Aktivitätserkennung im Fahrzeug: Was Autos über ihre Lenker wissen können**, automotive.2010 Die Zulieferkonferenz, Laakirchen, Austria.
- May 3, 2010 **Kontext- und Aktivitätserkennung im Fahrzeug:** Was Autos über ihre Lenker wissen können, automotive.2010: Was bleibt vom Auto, Linz, Austria.
- November 30, 2009 Invited talk: **Pervasive Computing: Wie viel Technologie erträgt der Mensch?** Kepler Salon Linz, Linz, Austria.
- November 13, 2009 Invited talk: **4 Screens 4 you: Cinema - Creating for Large Screens from Dream world to public adaptive Interaction**, Europrix Festival 09, Graz, Austria.
- October 9, 2009 Invited talk: **"Wearable IT im Tourismus - Wieviel Technologie erträgt der Mensch?"**, Forum Tourismus & Freizeit 2009: Virtuelle Welten - reale Gäste / Macht eTourismus das Reisen überflüssig? Linz, Austria.
- September 21, 2009 Invited talk: **Implicit interactions in pervasive computing**, PerAda Summer School, Budapest, Hungary.
- May 5, 2009 Invited talk: **Man kann nicht "nicht" interagieren!** Kongress der Vereinigung der Krankenhausedirektoren Österreichs, Linz, Austria.
- April 27, 2009 **Pervasive Adaptation in Car Crowds**, Workshop on User-Centric Pervasive Adaptation (UCPA 2009), Berlin, Germany.
- November 26, 2008 Keynote: **Spatial Awareness of Digital Artefacts** 5th International Symposium on LBS and TeleCartography, Salzburg, Austria.

- November 24, 2008 **Keynote: Spatial Zones of Influence** 6th International Conference on Advances in Mobile Computing and Multimedia, Linz, Austria.
- November 18, 2008 **Invited presentation: Wer Was Wo? Was vernetzte Dinge sonst noch wissen sollten:** Vom Personen- und Ortsbezug zum Bedeutungszusammenhang, Tagung Online zur Natur - Wohin geht die HandyReise? Zukunftsweisende Informationstechnologien für Natur und Tourismus. Linz, Promenade 39, Redoutensäle, Linz, Austria.
- October 10, 2008 **Invited presentation: Pervasive Learning,** LEARNTEC Forum Austria 2008, Wien, Austria.
- October 7, 2008 **Invited presentation: Smart Labels,** French European Union Presidency Conference, Internet of Things - Internet of the Future, Nice, France.
- September 26, 2008 **Wie viel Aufmerksamkeit braucht Information?** Lange Nacht der Forschung Oberösterreich, Johannes Kepler University Linz, Linz, Austria.
- September 26, 2008 **Man kann nicht nicht interagieren,** Lange Nacht der Forschung Oberösterreich, Johannes Kepler University Linz, Linz, Austria.
- September 22, 2008 **Vibro-tactile Space Awareness,** 10th International Conference on Ubiquitous Computing (UBICOMP 2008), Seoul, South Korea.
- September 21, 2008 **Ambient Facades** Workshop on Ambient Information Systems (AIS08) within the Tenth International Conference on Ubiquitous Computing (UBICOMP 2008), Seoul, South Korea.
- August 24, 2008 **Invited presentation: Am Beginn, und am Ende (!) des Second Life steht das First Life!** Alpbacher Technologiegespräche 2007, Alpbach, Tyrol, Austria.
- June 16, 2008 **The PANORAMA Research Agenda** Interlink Opening Workshop, 3rd Interlink-Workshop on Ambient Computing and Communication Environments, Keio University, Tokyo, Japan.
- May 9, 2008 **Goal Oriented Cooperative Sensing,** ETH Zürich, Zürich, Schweiz.
- April 17, 2008 **From RFID to Smart Label, Nichts zu verbergen?** Kleine Funk-Chips auf Reisen (RFID), Linz, Austria.
- April 4, 2008 **Pervasive Computing Lösungen für den Vienna City Marathon,** Galaabend 25 Jahre Vienna City Marathon, Rathaus Wien, Wien, Austria.
- April 2, 2008 **Pervasive e-Learning,** eLearning Cluster - Frühjahrstagung 2008, Innsbruck, Austria.
- March 13, 2008 **Pervasive Display Landscapes,** Project FET 4th Call \Display Ecologies, Braunschweig, Germany.
- February 25, 2008 **Implicit Interaction Research: A Survey,** Institute of Operating Systems and Computer Networks, University Braunschweig, Braunschweig, Germany.
- February 15, 2008 **Keynote: Space Abstractions for Digital Artefacts,** The IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2008), Innsbruck, Tyrol, Austria.
- January 29, 2008 **Invited presentation: Pervasive Learning: Innovating the Learning Process - Not Just Adding Technological Advances!** LEARNTEC 16. internationaler Kongress und Fachmesse für Bildungs- und Informationstechnologie, Karlsruhe, Germany.
- December 7, 2007 **Implicit Interaction,** Embedded Interaction HCI Technology Trendfocus, Siemens CT IC 7, Siemens AG. Munich, Germany.

- November 15, 2007 **Keynote: Das intelligente Haus:** Mehr Sicherheit, mehr Komfort, weniger Energie Jubiläumsveranstaltung 150 Jahre Wärmepumpe, Toskana Kongresszentrum, Gmunden, Austria.
- November 7, 2007 **A Matter of Taste**, The European Conference on Ambient Intelligence (Aml-07), Darmstadt, Germany.
- October 22, 2007 **Keynote: Spatial Awareness of Digital Artefacts** IEEE International Symposium on Distributed Simulation and Real-Time Applications (DS-RT 2007), Chania, Crete Island, Greece.
- September 17, 2007 **PowerSaver Pocket-Worn Activity for Energy Management**, 9th International Conference on Ubiquitous Computing (UbiComp 2007), Innsbruck, Austria.
- July 25, 2007 **Informative Art Display Metaphors** 12th International Conference on Human-Computer Interaction (HCI 2007), Beijing, China.
- July 24, 2007 **Everywhere Interfaces** 12th International Conference on Human-Computer Interaction (HCI 2007), Beijing, China.
- June 26, 2007 International Master on Pervasive Computing **Introducing the Pervasive Computing Master Curriculum**, Johannes Kepler University, Austria.
- June 21, 2007 **Goal Oriented Digital Artefacts** Kolloquiumsvortrag im Rahmen des Graduiertenkollegs \MuSAMA, Institut für Informatik, Universität Rostock, Rostock, Germany.
- June 14, 2007 **Pervasive Computing - Technology for People Smart Thinking**, one Smart Space, Vienna, Austria.
- May 25, 2007 **Keynote: Self-Managing Digital Artefacts** 4th International Workshop on Managing Ubiquitous Communications and Services. Part of IM 2007 (MUCS 2007), Munich, Germany.
- April 25, 2007 **Keynote: Digital Artefacts** 10th International Conference on Business Information Systems (BIS 2007), Poznan, Poland.
- March 24, 2007 **Der Computer ist überall!** ORF Kinderuni, Radio Ö1, Austria.
- March 15, 2007 **Keynote: Pervasive Computing/Gaming Interaktion zwischen digitaler und realer Welt**, DICOM 2007, Baden bei Wien, Austria.
- March 6, 2007 **Das Technikstudium aus der Sicht von Frauen und Männer**, TEquality - Technik Gender Equality: Ergebnisse des Forschungsprojektes an der Johannes Kepler University Linz, Linz, Austria.
- February 28, 2007 **Keynote: Shaping the Pervasive Computing Landscape:** Ensembles of Digital Artefacts FP7: FET Proactive Initiative: PERVASIVE ADAPTATION, Brussels, Belgium.
- January 30, 2007 **Digital Artefacts** (Eingeladener Kolloquiumsvortrag, Fakultät für Informatik und Mathematik, Universität Passau, Passau, Germany.
- January 29, 2007 **Digitale Artefakte** Informationselektronik für die Praxis Johannes Kepler University Linz & Danube Integrated Circuit Engineering mbH & Co KG (DICE), Linz, Austria.
- January 26, 2007 **Telekom Austria Cube Presentation** of "The Remote Control of the Future", Telekom Austria, Vienna, Austria.
- January 25, 2007 **Spatial Abstraction** OOP 2007 Business Advantage through Software Technology, Germany.
- November 29, 2006 Invited presentation: **Total vernetzt! Was nun?** (Anlässlich der Jahresveranstaltung VfS Hamburg) In der Handelskammer Hamburg, Hamburg, Germany.

- October 30, 2006 **Keynote: Every objects in the Pervasive Computing Landscape** The 8th International Symposium on Distributed Objects and Applications (DOA), Montpellier, France.
- October 2, 2006 **Keynote: Context Aware Systems**, 9th ACM/IEEE International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems, Torremolinos, Malaga, Spain.
- September 27, 2006 **Keynote: Human Computer Confluence** 9th ERCIM Workshop User Interfaces For All, Universal Access in Ambient Intelligence Environments, Königswinter (Bonn), Germany.
- June 4, 2006 **Keynote: Pervasive Computing and Communications** - Findings in the Beyond- The-Horizon TG1 15th IST Mobile and Wireless Communications Summit, Myconos, Greece.
- May 15, 2006 **Digital Lifestyle - Hype oder Hoffnung** 19. IT Salon Pour Elle im Moulin Rouge, (invited panelist), Vienna, Austria.
- May 7, 2006 **Soft Surface Displays: Exploiting Rejection and Dispersion of Liquids** The 4th International Conference on Pervasive Computing (Pervasive 2006), Workshop on pervasive display infrastructures, interfaces and applications, Dublin, Ireland.
- May 5, 2006 **Total vernetzt! Was nun?** (Anlässlich des Festkolloquium zum 60. Geburtstages von Prof. Dr. Axel Lehmann) Universität der Bundeswehr München, Munich, Germany.
- May 5, 2006 **Aesthetic Awareness Displays**, The 4th International Conference on Pervasive Computing (Pervasive 2006), Dublin, Ireland.
- February 20, 2006 **Keynote: Das Internet der Dinge** Multikonferenz Wirtschaftsinformatik 2006, Passau, Germany.
- December 2, 2005 **Vernetzte Dinge werden einander gewahr!** 8. Jahrestagung des Forums für Wirtschaftsethik und Wirtschaftskultur, Mensch-Maschine-Hybride, Stuttgart, Germany.
- November 29, 2005 **Laudatio** (Anlässlich der sub auspiciis Promotion von Rene Mayrhofer) Repräsentationsräume Johannes Kepler Universität Linz, Linz, Austria.
- July 27, 2005 **Pervasive Computing and Communications** - Challenges BEYOND-THEHORIZON International Workshop, University of Vienna, Austria.
- June 9, 2005 **Contextware: Implementing the Pervasive Computing Landscape** NEXUS Ringvorlesung, University of Stuttgart., Stuttgart, Germany.
- May 31, 2005 **Erfolge mit und durch Embedded Systems** Embedded Systems - Zukunftsfelder für KMU, Innovative Lösungen und Wirkung integrierter Systeme und mögliche Förderung, Karlsruhe, Germany.
- April 13, 2005 **Keynote: Informatik: Vom absichtslosen Erkenntnisgewinn zum Smart Gadget** Festveranstaltung - 30 Jahre Österreichische Computer Gesellschaft - OCG, Vienna, Austria.
- April 5, 2005 **Keynote: Context ESF Forward Look NanoSciences and the long term evolution of Information Technologies** (NSIT), Paris, France.
- March 21, 2005 **Invited presentation: Interaktion im Kontext: Dinge werden einander gewahr** Symposium, Der Computer im 21. Jahrhundert Die Informatisierung des Alltags. Perspektiven, Technologien, Wirkung, Zürich, Switzerland.
- March 16, 2005 **Das Netz der Dinge** Rotary Club Linz Landhaus, Linz, Austria.
- January 17, 2005 **Invited presentation: Selfmanagement im Kontext Pervasive Computing** Symposium des Feldaffinger Kreises 2005, Bad Honnef, Germany.

- October 18, 2004 **Die Bedeutung von Computer Know-How für Wirtschaft und Gesellschaft** ECDL Advanced Gala Siemens Forum, Vienna, Austria.
- October 11, 2004 **Towards a Context-Aware Embedded Internet** Informationstagung Mikroelektronik an Technische Universität Wien, Vienna, Austria.
- October 10, 2004 Invited presentation: **Learning Anytime - Learning Anywhere** Campus Innovation Hamburg, Multimedia Kontor Hamburg, Hamburg, Germany.
- September 22, 2004 Keynote: **Contextware: Implementing the Pervasive Computing Landscape** JAOO Conference 2004, Aarhus, Denmark.
- September 7, 2004 **Ubiquitous Display Environments Workshop on Ubiquitous Display Environments**, In conjunction with UBICOMP 2004, Nottingham, England.
- July 21, 2004 **SPECTACIES: Wearable Multimedia Silhouette International**, Linz, Austria.
- June 30, 2004 Keynote: **Pervasive Computing: Vom \Gesamtkunstwerk zum \Gesamtcomputer** Prämierungsveranstaltung L@rnie Award 2004 Wirtschaftskammer Österreich, Vienna, Austria.
- June 1, 2004 **Miniaturisierte Eingebettete Systeme: Potentiale und Gefahren** NOVA Expertengespräch, Wissenschaftskommission beim BMLV Bundesministerium für Landesverteidigung., Vienna, Austrian
- May 27, 2004 Keynote: **New Technologies in Health Care: Cure or Pain?** 37. Jahrestagung der österreichischen Gesellschaft für Gastroenterologie und Hepatologie, Linz, Austria.
- May 17, 2004 Keynote: **Space Warp Principles of Advanced and Distributed Simulation**, PADS 2004 Workshop, Kufstein, Austria.
- April 27, 2004 **The Interface is Everywhere** ONE Business Circle, one Smart Space, Vienna, Austria.
- April 26, 2004 **Pervasive Computing builds Everywhere Interfaces** WORKSHOP everywhere interfaces, one Smart Space, Vienna, Austria.
- April 23, 2004 **Proposal for a Research Studio: Pervasive Computing** Studioleiterworkshop Research Studios Austria, Kramergasse 1, 1010 Wien, Vienna, Austria.
- April 21, 2004 **Pervasive 2004** Second International Conference on Pervasive Computing, PERVASIVE 2004. (conference opening address), Vienna, Austria.
- March 17, 2004 **Spontaneous Interaction Wireless Sensor Networks and Applications**, Schloss Dagstuhl, Dagstuhl, Germany.
- March 3, 2004 **Communication Paradigms for 2020 FET consultation meeting: Pervasive Computing - Self Organising Networks**, Brussels, Belgium.
- January 29, 2004 **Contextware MiNEMA** Workshop, Trinity College, Dublin, Northern Ireland.
- December 15, 2003 **Mobilkommunikationsdienste: Die nächste Generation** ONE startet Kooperation mit der Universität Linz, Linz, Austria.
- December 10, 2003 Invited lecture: **Digital Aura**, Colloquium of the Kepler Society, Johannes Kepler University, Austria.
- December 4, 2003 Keynote: **e-future: Personal Computing >> Pervasive Computing**, AT21 Tagung, Graz, Austria.
- December 4, 2003 Invited presentation: **Automated Diagnosis of Distributed Simulation Performance Performance Evaluation - Stories and Perspectives.** Symposium zu Ehren von Prof. Günter Haring 60. Geburtstag. University of Vienna, Austria.
- November 28, 2003 Discussion statement: **Smarte Interaktion zwischen Menschen & Dingen**, Scientific Award BMW Group, November 26-28, 2003, Elmau, Germany.

- October 15, 2003 Keynote: **Back to the Real World**, 2. Engelberger Wissenschaftsdialog, Engelberg, Switzerland.
- October 2, 2003 **Embedded Interactive Systems: Back to the Real World**, Informationstagung Mikroelektronik 2003, Vienna, Austria.
- September 22, 2003 **Wireless Campus der Universität Linz - Von der Vision zur Realität**, Symposium Mobile Learning 2003, Johannes Kepler University, Austria.
- August 26, 2003 Tutorial: **Pervasive Computing**, Euro-Par 2003 International Conference on Parallel and Distributed Computing, August 26-29, 2003 in Klagenfurt/Austria, University of Klagenfurt, Austria.
- June 9, 2003 Keynote: **Coordination in Pervasive Computing Environments**, 12th IEEE International Workshops on Enabling Technologies (WETICE2003), Infrastructure for Collaborative Enterprises (WETICE-2003), Johannes Kepler University, Austria.
- June 5, 2003 **Pervasive Computing, Open house: Computer Science @JKU**, Johannes Kepler University, Linz, Austria.
- May 17, 2003 **Pervasive Cooperative Systems** Hearing, University of Vienna, Austria.
- May 6, 2003 **VRIO - Virtual Reality In-/Output**, IBM Upper Austria, Linz, Austria.
- April 30, 2003 **Pervasive Computing tec - tomorrows experts in computing**, broadcast at Upper Austrian Data Highway, Linz, Austria
- April 20, 2003 **Digital Aura: A Model for Spontaneous Interaction**, Tag der offenen Labore, Johannes Kepler University, Linz, Austria.
- April 15, 2003 **(Mobil-)Kommunikation: Technologien und Anwendungen**, M-Lab Associate Program, University St. Gallen, St. Gallen, Switzerland.
- April 11, 2003 **Awareness in Mobile Learning Teams**, NOTEBOOK-SYMPOSIUM, Donau-Universität Krems, Krems, Austria.
- March 5, 2003 **From Mobile to Pervasive Computing**, Master of Business Engineering, Business Model of the Information Age, Universität St. Gallen, Switzerland.
- February 16, 2003 **Connected >> Aware >> Smart. Die Zukunft der Kommunikation**, Diskussionsabend, Ars Electronica Center, Linz, Austria.
- January 20, 2003 Invited lecture: **Contextware**, The Computer Science Colloquium at ETH Zürich, IFW A36, Zürich, Switzerland
- December 23, 2002 Interview: **The DIGITAL AURA**, Hello Austria, Hello Vienna, Vienna, Austria
- December 11, 2002 **Beyond Communication**, ONE Buchpräsentation, Vienna, Austria
- December 3, 2002 Invited talk: **Digital Aura - Towards Ad-Hoc Interaction in Context**, Österreichisches Forschungsinstitut für Artificial Intelligence, Vienna, Austria
- November 28, 2002 **Connected >> Aware >> Smart**, Fit für die Zukunft, Wels, Austria
- November 27, 2002 Keynote: **e-Living**. Die nächste Generation der Informationstechnologie, Tagung "e-living", AT21 Gala, OCG, Vienna, Austria
- November 14, 2002 Invited presentation: **Connected >> Aware >> Smart**, Connect Austria Shareholder Meeting, Kaprun, Austria
- November 14, 2002 **webwall Coordination**, Presentation day connect Austria, Kaprun, Austria.
- November 7, 2002 **Wireless Learning Networks**, Grundlagenkonferenz e-Learning, OCG, Vienna, Austria
- November 5, 2002 **Vernetzt und unsichtbar: Was kommt nach dem PC?**, OCG Informatik Akademie, Vienna, Austria.
- October 10, 2002 Invited lecture: **Coordination Models for Ubiquitous Computing**, Ubiquitous Computing Seminar Fribourg, Fribourg, Switzerland

September 27, 2002 **Faszination Informatik.** Vom absichtslosen Erkenntnisgewinn zum "Smart Gadget", Johannes Kepler University Linz, Austria

August 26, 2002 **Pervasive Web Access via Public Communication Walls**, Pervasive Computing Conference, Zurich, Switzerland. (Best Paper and Best Presentation Award)

July 15, 2002 **Pervasive Computing**, EADS, Austria

June 17, 2002 Invited talk: **Contextware: Bridging Physical and Virtual Worlds**, Reliable Software Technologies - Ada-Europe 2002, Vienna, Austria.

June 14, 2002 **Accelerator Gmunden**, Technologietage Oberösterreich, Technologiezentrum Salzkammergut, Austria

May 22, 2002 **Everything Smart - Everything Connected.** Pervasive Computing and Embedded Systems, F(orschung)I(nnovation)T(echnologie) - IT Kick-Off, Techgate Vienna, Austria

May 7, 2002 **WebWall - An Architecture for Public Display**, WWW Services WWW2002 Alternate Paper Track: Middleware and Applications, Honolulu, Hawaii, USA.

April 24, 2002 **Vernetzte Welt**, Fit für die Zukunft, Laakirchen, Austria

April 8, 2002 Invited presentation: **Accelerator Gmunden: Zentrum für IT-Leadership**, Technologiezentrum Gmunden, Austria

March 28, 2002 **Pervasive Computing**, Fachbereich Informatik, Linz, Austria

March 14, 2002 **Connected!**, One Management Group Meeting, Vienna, Austria

February 26, 2002 **Everything Smart - Everything Connected** One Future Line, Epstein Lounge, Vienna, Austria

November 21, 2001 **Pervasive Computing - Exzellenzschwerpunkt an der TNF Technisch-Naturwissenschaftliche Fakultät**, Johannes Kepler University, Linz, Austria

October 18, 2001 **Die Bedeutung von Computer Know-How für Wirtschaft und Gesellschaft**, ECDL Advanced Gala, OCG, Siemens Forum Vienna, Austria.

October 11, 2001 Keynote: **Towards a Context-Aware Embedded Internet**, Informationstagung Mikroelektronik, Vienna, Austria.

September 27, 2001 **Location Awareness in Community Wireless LANs**, Workshop on Pervasive Computing and Information Logistics, GI-OCG Jahrestagung Informatik, Vienna, Austria.

September 19, 2001 **Internet und Oberösterreich. Zur Vernetzung aller Dinge**, INTERNET zwischen Mythos und Realität, Arbeiterkammer und AEC Linz, Linz, Austria

September 19, 2001 **Zur Vernetzung aller Dinge Forum Internet.** Zwischen Mythos und Realität, AEC Linz, Austria

September 18, 2001 **Pervasive Computing: The Post-PC Aera in Computer Science**, OCG Generalversammlung, Vienna. Austria

September 18, 2001 **IT-Spezialisten für den Wettbewerbsfaktor Europa**, 1. Informatik-Cocktail, OCG, Vienna, Austria

July 4, 2001 Invited presentation: **Everything Smart - Everything Connected**, Die Erste Bank, Vienna, Austria

June 29, 2001 Invited lecture: **Everything Smart - Everything Connected**, Informationstag 2001 - Mobile Computing, Regensburg, Germany

June 26, 2001 Invited presentation: **Der vernetzte Mensch - der vernetzte Alltag:** Vision oder schon bald Realität, IBM Business Circle, Linz, Austria

February 12, 2001 **Awareness in Virtual Spaces**, Frauen in die Technik, Linz, Austria

September 3, 2000 Invited presentation: **Pervasive Computing - The Invisible Revolution**, ETM Eisenstadt, Eisenstadt, Austria

September 1, 2000 Invited presentation: Coordination, Software Competence Center Hagenberg, Hagenberg, Austria

August 10, 2000 Invited presentation: **Research Overview**: Institute of Applied Computer Science, die Erste Bank, Vienna, Austria

June 15, 2000 **Workspace Awareness in Mobile Virtual Teams**, 9th International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises (WETICE 2000), Gaithersburg, Maryland, USA.

July 19, 1999 Keynote: **Distributed Interaction in Virtual Spaces**, 3rd International Workshop on Distributed Interactive Simulation and Real-Time Applications, (invited conference keynote), Montreal, Canada.

June 16, 1999 **Virtual Teams - Perspektiven kooperativer Teamarbeit**, 4. GIT Fachtagung - Arbeitsplätze der Zukunft, Vienna, Austria

May 1, 1999 **Shock Resistant Time Warp**, 13th Workshop on Parallel and Distributed Simulation (PADS'99), Atlanta, Georgia.

April 24, 1999 **Neuronale Netzwerksimulation auf Transputer-Workstations**, Impuls-Seminar Parallelverarbeitung mit Transputern auf Apollo, Berthold & Stempel GesmbH, Vienna, Austria.

January 26, 1999 Invited presentation: **Cooperative Work**, Siemens Forum, Baden, Austria.

December 18, 1998 Invited presentation: **Distributed Cooperation Environments Future Generation Internet for Architects**, Technical University of Vienna, Vienna, Austria.

November 24, 1998 Invited lecture: **Pro-active Performance Tuning in Distributed Simulation**, Kunglia Tekniska Högskolan, Stockholm, Sweden.

November 23, 1998 Interview: **Perspectives in Distributed Computing Research**, Kunglia Tekniska Högskolan, Stockholm, Sweden.

October 7, 1998 Invited presentation: **Cooperative Work in the Information Society**, COOPERATE Presentation Day, Vienna, Austria.

September 28, 1998 **N-MAP DAPSYS98**, Workshop on Distributed and Parallel Systems, September 28-30, 1998, Budapest, Hungary.

July 19, 1998 Keynote: **Coordination in Distributed Interactive Simulation**, DIS-RT'98, Montreal, Canada.

July 19, 1998 **Pro-active Performance Management of Distributed Applications**, 6th International Symposium on Modeling Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS'98), Montreal, Canada.

July 3, 1998 Keynote: **Distributed Simulation: Webward - Ho!** 2nd IASTED European Parallel and Distributed Systems Conference Euro-PDS'98, Baden, Austria.

June 17, 1998 **Distributed Simulation on the WWW**, Università di Genova, Genova, Italy.

June 16, 1998 **Parallel Simulation Performance and Implementation Issues**, Università di Genova, Genova, Italy.

June 15, 1998 **Asynchronous Parallel Simulation Schemes**, Università di Genova, Genova, Italy.

June 12, 1998 **Synchronous Parallel Simulation Schemes**, Università di Genova, Genova, Italy.

June 11, 1998 **What is Parallel and Distributed Simulation?**, Università di Genova, Genova, Italy.

- June 10, 1998 **Simulation of Discrete Event Systems**, Università di Genova, Genova, Italy.
- December 7, 1997 **Java Based Conservative Distributed Simulation**, WSC'97 Winter Simulation Conference, Atlanta, USA.
- September 4, 1997 Invited presentation: **Decision Support for Industrial Parallel Simulation Projects**, Gintic Institute of Manufacturing Technology, Nanyang University Singapore, Singapore.
- September 2, 1997 **Early Performance Prediction of Parallel Simulation Protocols**, 1st World Congress on Systems Simulation (WCSS'97), Singapore.
- June 3, 1997 **Time Warp Simulation of Timed Petri Nets: Sensitivity of Adaptive Methods**, International Workshop on Petri Nets and Performance Models (PNPM'97), Saint-Malo, France.
- June 3, 1997 **N-MAP - an Environment for a Performance Oriented Development Process of Parallel Programs**, 9th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation (TOOLS'97), Saint-Malo, France.
- June 2, 1997 **Parallel and Distributed Simulation of Timed Petri Nets**, International Workshop on Petri Nets and Performance Models (PNPM'97), Tutorial, Saint-Malo, France.
- April 4, 1997 Invited presentation: **Coordination in Distributed Software Technology**, Institut für Computerwissenschaften und Systemanalyse, University of Salzburg, Salzburg, Austria.
- December 8, 1996 **A Testbed for Parallel Simulation Performance Prediction**, Winter Simulation Conference 1996 (WSC'96), Coronado, California, USA.
- September 6, 1996 **An Environment for a Performance Oriented, Visual Development Process of Efficient Parallel Programs**, CEI-PACT Final Workshop. Federal Ministry of Science, Transport and the Arts, Minoritenplatz 5, Vienna, Austria.
- July 8, 1996 Invited presentation: **Distributed Simulation: From Classical to Adaptive Strategies**, Institut für Informatik, University of Leipzig, Leipzig, Germany.
- June 12, 1996 **Performance Prototyping of Parallel Applications** in N-MAP, IEEE 2nd Int. Conference on Algorithms and Architectures for Parallel Processing, Singapore.
- June 3, 1996 **Massively Parallel Simulation of Business Process Models**, European Simulation Multiconference, Budapest, Hungary.
- May 14, 1996 Invited presentation: **Qualitative and Quantitative Analysis of Business Process Models**, Westfälische Wilhelms-Universität, Münster, Germany.
- January 19, 1996 **Distributed Virtual Reality Environments**, AMADEUS Meeting, Johannes Kepler University, Katsdorf, Austria.
- December 12, 1995 **Adaptive Model Parallelism Exploitation in Parallel Discrete Event Simulation**, European Simulation Conference, EUROSIM'95, Vienna, Austria.
- October 18, 1995 **Parallel and Distributed Processing: Contributions of Performance Analysis to Application Development**, Habilitationskolloquium, University of Vienna, Vienna, Austria.
- June 16, 1995 **Probabilistic Adaptive Direct Optimism Control in Time Warp**, 9th Workshop on Parallel and Distributed Simulation (PADS'95), Lake Placid, New York, USA.

- March 8, 1995 **Simulation for Performance Analysis of Concurrent Systems**, MATCH Meeting, Institute Blaise Pascal, Laboratoire MASI, Paris, France.
- February 3, 1995 **Distributed Discrete Event Simulation: Probabilistic Strategies**, Department of Computer and Information Science, University of Oregon, Eugene, Oregon, USA.
- January 18, 1995 **Performance Comparable Design of Synchronization Protocols for Distributed Simulation**, MASCOTS'95 Conference, Durham, USA.
- January 3, 1995 **Performance Analysis of Parallel Systems** Half-day Tutorial, 28-HICSS, Hawaiian International Conference on Systems and Sciences, Maui, USA.
- January 1, 1995 **N-MAP: A Virtual Processor Discrete Event Simulation Tool for Performance Prediction in the CAPSE Environment**, 28-HICSS, Hawaiian International Conference on Systems and Sciences, Maui, USA.
- December 11, 1994 **Concurrent Execution of Timed Petri Nets State-of-the-Art Review**, Winter Simulation Conference, Florida, USA.
- November 11, 1994 **Parallel and Distributed Discrete Event Simulation** ACPC Workshop Keutschach, Carinthia, Austria.
- October 19, 1994 **Qualitative and Quantitative Analysis of Business Workflows using Generalized Stochastic Petri Net**, CON'94: Work flow Management - Challenges, Paradigms and Products, Linz, Austria.
- September 6, 1994 **Performance Oriented Development of SPMD Programs Based on Task Structure Specifications**, CONPAR 94 - VAPP VI Conference, Linz, Austria.
- June 6, 1994 **Distributed Discrete Event Simulation of Petri Nets: From Classical Conservative/Optimistic to Probabilistic Strategies**, Department of Computer Science, University of Maryland, College Park, USA.
- May 3, 1994 **Accelerating the Evaluation of Parallel Program Performance Models using Distributed Simulation**, 7th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation, Vienna, Austria.
- April 11, 1994 **Self-Adaptive Logical Processes: the Probabilistic Distributed Simulation Protocol**, 27th Annual Simulation Symposium, LaJolla, California.
- June 21, 1993 **Distributed Simulation of Timed Petri Nets: Exploiting the Net Structure to obtain Efficiency**, 14th Int. Conf. on Application and Theory of Petri Nets, June 21-25, 1993, Chicago, Illinois.
- March 26, 1993 **Project Studies in Parallel Processing** at the Univ. of Vienna, IMPACT TEMPUS JEP's and Hungarian Transputer User Group Workshop on Parallel Processing in Education, March 25-27, 1993 Univ. Miskolc, Hungary.
- March 25, 1993 **Performance Oriented Development of Parallel Programs in a Computer Aided Parallel Software Engineering Environment**, IMPACT TEMPUS JEP's and Hungarian Transputer User Group Workshop on Parallel Processing in Education, March 25-27, 1993, Univ. Miskolc, Hungary.
- March 20, 1993 **Optimizing Distributed Simulation Engines**, 5th Scientific ACPC Meeting, March 19-21, 1993, Vienna, Austria.
- January 6, 1993 **Exploiting Timed Petri Net Properties for Distributed Simulation Partitioning**, 26th Hawaiian Int. Conference on System Sciences, January 5-8, 1993, Maui, USA.

- October 10, 1992 **A Transputer Implementation of Optimistic Distributed Simulation Strategies for Timed Petri Nets**, 1st Austrian-Hungarian Workshop on Transputer Applications, Sopron, Hungary.
- October 3, 1992 **Performance Analysis: Methods and Applicability in Parallel Programming**, 4th Scientific ACPC Meeting., Traunstein, Austria.
- June 12, 1992 **Modellierung und Leistungsanalyse paralleler Systeme mit dem PRM-Netz Modell** (Anlässlich der Verleihung des Heinz Zemanek-Preises 1992), Festsaal des Bundesministeriums für Wissenschaft und Forschung, Vienna, Austria.
- May 21, 1992 **Optimum Interconnection Topologies for the Compute-Aggregate-Broadcast Operation on a Transputer Network**. TRANSPUTERS '92, Advanced Research and Industrial Applications, Arc-et-Senans, France.
- March 27, 1992 **Parallel and Distributed Simulation of Timed Transition Petri Nets**, 3rd Scientific ACPC Meeting, Schloss Weinberg, Austria.
- January 15, 1992 **Performance Models of Parallel Systems**, Technische Universität Wien, Institut für Operations Research und Systemtheorie, Vienna, Austria.
- November 29, 1991 **Kombinatorische Optimierung mit Boltzmann-Maschinen**, Konversatorium aus Operations Research: "Neuronale Netze: Theorie und Anwendungen", Technische Universität Wien, Institut für Ökonometrie, Operations Research und Systemtheorie, Vienna, Austria.
- November 21, 1991 **Neuronale Netzwerke Ringvorlesung**: "Anwendungen und Auswirkungen der Informatik", Universität Wien, Institut für Theoretische Physik, Vienna, Austria.
- August 2, 1991 **Petri Net Models of Parallel Algorithms** Z. Segall, Dept. of Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, PA, USA.
- August 1, 1991 **Performance Engineering and Parallel Program Design**, Dept. of Computer Science, University of Illinois at Urbana-Champaign, Champaign, Illinois, USA.
- July 29, 1991 **Parallel Algorithm Templates to Support Performance Prediction** L. Snyder, Dept. of Computer Science, University of Washington, Seattle, Washington, USA.
- July 26, 1991 **Computer Aided Parallel Software Engineering**, Dept. of Computer Science, Oregon State University, Corvallis, Oregon, USA.
- July 19, 1991 **Performance Oriented Parallel Program Design in the CAPSE Environment**, Minnowbrook Workshop on Software Engineering for Parallel Computing, Syracuse University, Blue Mountain Lake, New York, USA.
- July 19, 1991 **Performance Modeling of Parallel Processing Systems Parallel Computing**, Curriculum Development Workshop, Colgate University, Hamilton, New York, USA.
- June 24, 1991 **Predictable Templates of CSP-like Programs**, Dipartimento di Scienze della Informazione, Università di Milano, Milano, Italy.
- March 21, 1991 **A Nonalgorithmic Approach for Solving the TSP Problem**, Dipartimento di Informatica, Università di Torino, Torino, Italy.
- March 20, 1991 **Performance Evaluation Methods and Tools for a Parallel Program Development Environment**, Dipartimento di Informatica, Università di Torino, Torino, Italy.

- March 8, 1991 **A Parallel Simulation Algorithm for Neural Network Models with Stochastic Unit Behaviour**, 2nd Scientific ACPC Meeting, March 8-9, 1991, Vienna, Austria.
- February 21, 1991 **Developing a Product for the Software Market in a Software Engineering Course**, Joint Austrian-Hungarian Workshop on Education & Research in Software Engineering, February 20-22, 1991, Vienna, Austria.
- January 17, 1991 **Performance Oriented Parallel Program Design**, ACPC Kolloquium, University of Vienna, Vienna, Austria.
- October 5, 1990 An Integrated Petri-net-Based Performance Model to Support the Development Process of Parallel Application Software, 1st Scientific ACPC Meeting, October 4-6, 1990, Henndorf am Wallersee, Austria.
- September 4, 1990 **Petri Net Based Modeling of Parallel Programs Executing on Distributed Memory Multiprocessor Systems**, Joint Seminar on Formal Techniques in Programming Technology, September 3-5, 1990, Göd/Budapest, Hungary.
- August 30, 1990 **Asynchronous Parallel Boltzmann Machines for Combinatorial Optimization: Parallel Simulation and Convergence**, OPERATIONS RESEARCH 1990, International Conference on Operations Research, August 28-31, 1990, Vienna, Austria.
- July 10, 1990 **A Parallel Boltzmann Machine Simulator for Distributed Memory Multiprocessor Systems**, INNC 90 PARIS, International Neural Network Conference, July 9-13, 1990, Paris, France.
- December 18, 1989 **Algorithmically provable variations** of $ab + a^2b < a^2a + b^2b$. ($0 < a < b$, $a^2 < b^2$), Statistisches Seminar, University of Vienna, Vienna, Austria.
- December 12, 1989 **Modelling Mappings of Parallel Programs onto Parallel Architectures with the PRM-Net Model IFIP-WG 10.3 Concurrent Systems**, Working Conference on Decentralized Systems, December 11-13, 1989, École Normale Supérieure, Lyon, France.
- September 9, 1989 **International Conference on Applications of Transputers: A Summary**, Impuls Computer Systeme GesmbH, Vienna, Austria.
- May 30, 1988 **Modelling a Class of Multiprocessor Systems with High Level Nets**, 2nd Workshop on Computer Performance Evaluation, May 30 - June 1, 1988, University of Milano, Milano, Italy.
- February 1, 1988 **Der Arbeitsschwerpunkt Parallelverarbeitung am Institut für Statistik und Informatik**, Johannes Kepler University, Linz, Austria.
- October 22, 1987 **Classroom Oriented versus CAI-supported Teaching/Learning in University Education: A Case Study with Experimental Results**, Symposium on Computerized Information Systems in University Education (Alps-Adria Rectorial Conference), October 22-23, 1987, University of Zagreb, Zagreb, Yugoslavia.
- June 3, 1987 **A Matrix-Approach for Proving Inequalities**, EUROCAL '87, International Conference on Symbolic and Algebraic Computation, June 2-5, 1987, Karl-Marx University Leipzig, Leipzig, GDR.
- January 15, 1987 **Computerunterstützter Unterricht**, Bundeswirtschaftskammer, Vienna, Austria.

XVIII. Publications

a) Theses

01. Habilitation Thesis (Venia Docendi for Informatics)
Parallel and Distributed Processing: Contributions of Performance Analysis to Application Development, 1995, University of Vienna.
02. PhD Thesis
Modellierung und Leistungsanalyse paralleler Systeme mit dem PRM-Netz Modell, 1990, University of Vienna. (Modelling and Performance Analysis of Parallel Systems with PRM-Nets, awarded with the Heinz Zemanek-Preis 1992 for outstanding contributions in Computer Sciences)
03. Diploma Thesis
Symbolisches Differenzieren und Simplifizieren mit LOGO, 1984, University of Vienna.

b) Books, Editorial Work

025. Ferscha A. (Ed.): **New Deal in Austrian Production Research**, ÖWGP, 2024. PDF available.
024. Ferscha A. (Ed.): **Pro²Future Achievements 2017 - 2023**, Pro2Future GmbH, 310 page(s), 2023. PDF available.
023. Ferscha A., Chan M.C., Kanhere S., Prasad R.R.V. (Eds.): **EWSN '22: Proceedings of the 2022 International Conference on Embedded Wireless Systems and Networks**, ACM DL, 2023. <https://dl.acm.org/doi/proceedings/10.5555/3578948>
022. Ferscha, A.: **EWSN 2022 Conference Booklet**, 2022.
021. Bleicher, F., Ferscha, A., Haas, F., Holzer, C., Kotsis, G., Ramsauer, C., Schledjewski, R., Schlund, S., Sommitsch, C., Stockinger, M., Otto, A., Vössner, S., Zeman, K.: **ÖWGP Positionspapier 2021: New Deal in Production**, ÖWGP, 2021. (download: <https://www.oewgp.at/wp-content/uploads/2021/08/OEWGP-Positionspapier-2021.pdf>)
020. Mayer, A., Schneegass, S., Anzengruber-Tánase, B., Ferscha, A., Anderst-Kotsis, G., Paradiso, J.: **Proceedings of the Seventh International Conference on the Internet of Things, IOT 2017, Linz, Austria, October 22-25, 2017**, ACM, 2017. <https://dl.acm.org/doi/proceedings/10.1145/3131542>
019. Ferscha, A.: **Next Generation JKU**, JKU Linz, 2017.
018. Gaggioli A., Ferscha A., Riva G., Dunne S., Viaud-Delmon I.: **Human Computer Confluence: Transforming Human Experience Through Symbiotic Technologies**, DE GRUYTER OPEN, 2016. ISBN:978-3-11-047112-0.
017. Ferscha A. (Ed.): **JKU Production Research**, Whitebook, 2016.
016. Ferscha A., Paradiso J., Whitaker R. (Guest Eds.): **Attention Management, Special Issue**, in: IEEE Pervasive Computing, Vol. 13, No. 1, 2014.
015. Community, Th. Sc.: **Human Computer Confluence: The Next Generation Humans and Computers Research Agenda**, 2013. Available online: Research Agenda (en) (PDF, 2,6 MB) .
014. Community, Th. Sc.: **Pervasive Adaptation: The Next Generation Pervasive Computing Research Agenda**, 2011. Available online: <https://cordis.europa.eu/docs/projects/cnect/7/213967/080/deliverables/001-PerAdaResearchAgendaBook1.pdf>
013. Editorial Advisory Board Member for: Phan Cong-Vinh: **Formal and Practical Aspects of Autonomic Computing and Networking: Specification, Development, and Verification**, NTT University, Vietnam, IGI Global, 2011.
012. Ferscha A., Kotsis G., Roggen D., Dunne L., Mayrhofer R., Krüger A., Hörtner H., Seymour S., Sommerer C., Riener A. (Eds.): **Advances in Wearable Computing**, 2009.
011. Buchberger B., Affenzeller M., Ferscha A., Haller M., Jebelean T., Klement E., Paule P., Pomberger G., Schreiner W., Stubenrauch R., Wagner R., Weiss G., Windsteiger W. (Eds.): **Hagenberg Research**, Springer Dordrecht Heidelberg London New York, 488 page(s), 2009.

010. M. Mühlhäuser, Ferscha A., & E. Aitenbichler (Eds.) **Constructing Ambient Intelligence**. Aml 2007 Workshops Darmstadt, Germany, November 7-10, 2007, Revised Papers Series: Communications in Computer and Information Science, Vol. 11 2008, XI, 470 p. ISBN: 978-3-540-85378-7, 2008.
009. Ferscha A. (Ed.) Mobile Learning. **Special Issue of E-Learning**, Studien Verlag, Innsbruck-Wien-Bozen, (e-learning-zeitschrift.at). Vol. 2, No. 4, 2007.
008. Ferscha A., S. Olariu, & T. Pfeifer (Eds.) **Special issue on wireless sensor networks and applications**. Computer Communications 28(13): 1481-1483, 2005.
007. Ferscha A., & F. Mattern, (Eds.) **Pervasive Computing**. Second International Conference, PERVASIVE 2004, Vienna Austria, April 21-23, 2004, Lecture Notes in Computer Science, Springer, LNCS 3001, Berlin, 2004.
006. Ferscha A., H. Hoertner, & G. Kotsis (Eds.) **Advances in Pervasive Computing**, Vol. 175 of OCG Schriftenreihe. Austrian Computer Society, 2004. ISBN 3-85403-175-0.
005. G. Kotsis, Ferscha A., W. Schreiner, & I.K. Ibrahim, (Eds.). **Proceedings of the International Conference on Advances in Mobile Multimedia (MoMM 2003)**, Vol. 171 of OCG Schriftenreihe. Austrian Computer Society, 2003. ISBN 3-85403-171-8.
004. K. L. Bellman, C. Landauer, R. Tolksdorf, & Ferscha A.: **Report On Major Themes and Issues Arising from the Workshop. Web Infrastructures and Coordination Architectures for Collaborative Applications**, in Proceedings of the Workshop on Enabling Technologies and Infrastructures for Collaborative Enterprises, WET-ICE 2002, pp. 225-229, IEEE, 2002.
003. Ferscha A., & M. Malony: **Performance Data Mining: Automated Diagnosis, Adaptation and Optimization**. Journal of Future Generation Computing Systems, North Holland, Vol. 18, Issue 1, 2001., pp. 127-130, 2001.
002. G. Kotsis, & W. Deiters, Ferscha A.: **Introduction to the Workshop on Pervasive Computing and Information Logistics**. in: Proceedings of the GI/OCG-Jahrestagung 2001, K. Bauknecht, W. Brauer, T. Mück (Eds.), OCG, September 2001, Vienna, Austria.
001. Ferscha A.: **Modellierung und Leistungsanalyse paralleler Systeme mit dem PRM-Netz Modell**. (PhD Dissertation) OCG Schriftenreihe, Band 65, R. Oldenbourg, Wien, 1995.

c) Refereed Publications, Journal Papers and Conference Publications

280. Azadi B., Haslgrübler-Huemer M., Anzengruber-Tanase B., Sopidis G., Ferscha A.: **Robust Feature Representation Using Multi-Task Learning for Human Activity Recognition**. In Sensors Vol. 24, Nr. 2, MDPI, 2024. <https://doi.org/10.3390/s24020681>
279. Sopidis G., Haslgrübler-Huemer M., Azadi B., Guiza O., Schobesberger M., Anzengruber-Tanase B., Ferscha A.: **System Design for Sensing in Manufacturing to Apply AI through Hierarchical Abstraction Levels**, in Sensors, Vol. 24, Nr. 14, MDPI, 2024. <https://doi.org/10.3390/s24144508>
278. Laube M., Sopidis G., Anzengruber-Tanase B., Ferscha A., Haslgrübler-Huemer M.: **Analyzing Arc Welding Techniques improves Skill Level Assessment in Industrial Manufacturing Processes**, in PETRA'23: Proceedings of the 16th International Conference on Pervasive Technologies Related to Assistive Environments, ACM DL, 2023. <https://doi.org/10.1145/3594806.3594822>
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020. Ferscha A.: **Projektendbericht: COOPERATE** - Distributed Multiuser Cooperative Work Environments. Internal Report, University of Vienna, 1999.
019. Ferscha A., Kotsis G.: **Projektendbericht: Web-Konzept Vienna City Marathon**. Internal Report, University of Vienna, 1999. 18. Ferscha A., Johnson J.: N-MAP: An Environment for a Performance Oriented Development Process of Efficient Parallel Programs. Software Demonstrations Book. CEI-PACT Final Workshop. Federal Ministry of Science, Transport and the Arts, Minoritenplatz 5, September 6, 1996, Vienna, Austria.
018. Ferscha A., Johnson J., G. Kotsis, M. Richter: **Parallel Simulation of Complex Work**
017. **Flow Models**. Jubiläumsfondsprojekt Nr. 5069, Oesterreichische Nationalbank, Final Report, June 1996.
016. Ferscha A., Johnson J.: **Sensitivity of Workload Models in the Domain of Performance Prediction**. CEI-PACT Project Deliverable D6H-5, Research Grant BMWF GZ 308.926, November 1995.
015. Ferscha A., Gruber B., R. Tschopp: **Workload Model Generator**. CEIPACT Project Deliverable D6H-3, Research Grant BMWF GZ 308.926, June 1995.
014. Ferscha A., Gruber B.: **Validation of Prototype**. CEI-PACT Project Deliverable D6H-4, Research Grant BMWF GZ 308.926, June 1995.
013. Ferscha A., Johnson J.: **Implementation of Workload Characterization Tools**: The N-MAP Environment. CEI-PACT Project Deliverable D3H-3, Research Grant BMWF GZ 308.926, June 1995.
012. Ferscha A., Johnson J.: **Evaluation of Accuracy/Cost-Tradeoffs in the N-MAP Environment**. CEI-PACT Project Deliverable D3H-4, Research Grant BMWF GZ 308.926, June 1995.
011. Ferscha A., Malony A.: **Scenario Management in the N-MAP Environment**. Supplementary CEI-PACT Project Deliverable D3H- 6, Research Grant BMWF GZ 308.926, April 1995.
010. Ferscha A., Gruber B.: **Prototype Graphical Communication Pattern Editor**. CEI-PACT Project Deliverable D6H-2, Research Grant BMWF GZ 308.926, February 1995.
009. O. Caprotti, Ferscha A., Hong H.: **Reachability Test in Petri Nets by Gröbner Bases**. Research Institute for Symbolic Computation, Johannes Kepler Universität, A-4020 Linz, AUSTRIA, January 1995.
008. Ferscha A., Johnson J.: **Application of Workload Characterization Methodology within the N-MAP environment**. CEI-PACT Project Deliverable D3H-2, Research Grant BMWF GZ 308.926, August 1994.
007. Ferscha A., Gruber B., Johnson J., Pigel G.: **Requirements Analysis for the graphical specification of SPMD programs**. CEI-PACT Project Deliverable D6H-1, Research Grant BMWF GZ 308.926, March 1994.
006. Ferscha A., Johnson J., Kotsis G.: **Systematic Approach for Workload Characterization of Parallel Programs**. CEI-PACT Project Deliverable D3H-1, Research Grant BMWF GZ 308.926, March 1994.

- 005. Ferscha A., Haring G.: **Parallel Petri Net Simulation**. Endbericht zum Forschungsauftrag BMWF, GZ 613.525/2-26/90, Dezember 1992.
- 004. Ferscha A., Müllner W.: **Arbeitsschwerpunkt Parallelverarbeitung. Positionspapier**, Institut für Statistik und Informatik, Univ. Wien, März 1988.
- 003. Ferscha A.: **The PRM-Net Model - An Integrated Performance Model for Parallel Systems**. Technical Report Series of the Institut für Statistik und Informatik, TR-ISI/ANGINF-56, October 1988.
- 002. Ferscha A.: **Modelling a Class of Multiprocessor Systems with High Level Nets**. 2nd Workshop on Computer Performance Evaluation, May 30 - June 1, 1988, Milano, Italy (unpublished).
- 001. Ferscha A.: **Allgemeines zum Computerunterstützten Unterricht**. In: G. Haring und N. Tanzer: Einsatz des Computerunterstützten Unterrichts in der Universitären Ausbildung im Bereich Informatik. Fallstudie." Endbericht zum Forschungsauftrag des BMfWF, Wien, 1987.

e) Multimedia Productions, Research Videos, Installations

- 030. **Attention Management in Endoscopic Surgery** (2015) Institut für Pervasive Computing, Johannes Kepler University Linz, Project: MiniAttention.
- 029. **IT for Implicit Interaction based Energy Management** (2015) Institut für Pervasive Computing, Johannes Kepler University Linz, Project: PowerIT.
- 028. **Man and Machines in Production: Attentive Machines** (2014) Institut für Pervasive Computing, Johannes Kepler University Linz, Project: Attentive Machines.
- 027. **Sapere Information Ecosystems** (2013) Institut für Pervasive Computing, Johannes Kepler University Linz, Project: SAPERE, Stream: <https://www.pervasive.jku.at/Research/Videos/index.php?key=1347>.
- 026. **A Framework for Opportunistic Context and Activity Recognition** (2011) Institut für Pervasive Computing, Johannes Kepler University Linz, Project: OPPORTUNITY, Stream: <http://www.pervasive.jku.at/Research/Videos/index.php?key=1098>.
- 025. **PowerSaver - Activity-Based Implicit Energy Management** (2011) Institut für Pervasive Computing, Johannes Kepler University Linz, Project: PowerSaver, Stream: <http://www.pervasive.jku.at/Research/Videos/index.php?key=1091>. (Research Video, published at ISWC 11 as video paper)
- 024. **SPECTACLES - Autonomous Wearable Displays** (2010) Institut für Pervasive Computing, Johannes Kepler University Linz, Project: SPECTACLES, Stream: <http://www.pervasive.jku.at/Research/Videos/index.php?key=1152>.
- 023. **Coupon Collector** (2009) Institut für Pervasive Computing, Johannes Kepler University Linz, Stream: <http://www.pervasive.jku.at/Research/Videos/index.php?key=1024>. (Research Video, published at the ISWC 09 as video paper)
- 022. **Olfactory Interaction Zones** (2009) Institut für Pervasive Computing, Johannes Kepler University Linz, Stream: <http://www.pervasive.jku.at/Research/Videos/index.php?key=929>.
- 021. **Aquareness Displays**. Institut für Pervasive Computing, JKU Linz. (Installation (12000 Ansi Lumen Building Size Projection) at the Johannes Kepler University, Lange Nacht der Forschung 2008, September 2008)
- 020. **Media Facades**. Institut für Pervasive Computing, JKU Linz. (Installation (12000 Ansi Lumen Building Size Projection) at the Linz Operahouse (Landestheater), April 2008)
- 019. **Vibro-Tactile Space-Awareness**. Solutions for Industries. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Research Video, presented at UBICOMP 2008)
- 018. **Power Saver: A Pocket Worn Activity Tracker for Energy Management**. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Research Video, presented at UBICOMP 2007)
- 017. **Virtual Telepresence**. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Research Video, 2007)

- 016. **Aesthetic Awareness Displays**. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Research Video, presented at PERVASIVE 2006)
- 015. **INSTAR Digital Graffiti**s. Information and Navigation Systems Through Augmented Reality. Siemens Corporate Technology, JKU Linz, Ars Electronica Futurelab. (Research Video, Presented at Siemens Forum 2005)
- 014. **INSTAR. Information and Navigation Systems Through Augmented Reality**. Siemens Corporate Technology, JKU Linz, Ars Electronica Futurelab. (Research Video, presented at PERVASIVE 2004)
- 013. **WaterWall**, Institut für Pervasive Computing, JKU Linz.(Installation (12000 Ansi Lumen Building Size Projection) at the Johannes Kepler University "Ententeich", Lange Nacht der Forschung 2005, September 2005)
- 012. **LetterDrops**. Institut für Pervasive Computing, JKU Linz.(Installation (12000 Ansi Lumen Building Size Projection) at the Johannes Kepler University TNF Tower, Lange Nacht der Forschung 2005, September 2005)
- 011. **HeartBeat**. Institut für Pervasive Computing, JKU Linz. (Research Video, presented at Ars Electronica Festival (Megascreen, Hauptplatz Linz) 2005)
- 010. **Context Knob**. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Concept Video, 2005)
- 009. **SiLiCon Peer-It**. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Research Video, 2005)
- 008. **Digital Aura**. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Research Video, presented at PERVASIVE 2004)
- 007. **Calligraphy Stick**. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Concept Video, 2004)
- 006. **PARIS**. Personalised Augmented Reality Information System. Siemens Corporate Technology, JKU Linz, Ars Electronica Futurelab. (Research Video, 2003)
- 005. **DigiScope**: A 6DOF See-Through Mixed Reality Inspection System. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Research Video, presented at UBICOMP 2003)
- 004. **Smart Shop Window**, Smart Movie Poster. Institut für Pervasive Computing, JKU Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Concept Video, 2003)
- 003. **Tangible Phone**. Institut für Pervasive Computing, Johannes Kepler University Linz; Siemens Corporate Technology, CT SE2, Siemens AG, München. (Concept Video, 2003)
- 002. **COOPERATE**. (Multi Media CD-ROM on Multimedia Multiuser Distributed Cooperative Work, 1999) www.cooperate.at
- 001. **Österreichs Wege in die Informationsgesellschaft**. (Multi Media CDROM on Technologies and Potentials in the Information Society, in English, 1997) www.ani.univie.ac.at/~vroieg

TEACHING ACTIVITIES

XIX. Supervision of Master and PhD Theses

- A. Hussain, PhD Thesis, starting, Johannes Kepler University Linz.
- M.W. Khan, PhD Thesis, starting, Johannes Kepler University Linz.
- P. Appel, PhD Thesis, ongoing, Johannes Kepler University Linz. (Secondary supervisor)
- B. Franzl, Master Thesis, ongoing, Johannes Kepler University Linz.
- M. Ennemoser, Master Thesis, starting, Johannes Kepler University Linz.
- B. Reisinger, Master Thesis, starting, Johannes Kepler University Linz.
- C. Wittwer, Master Thesis, ongoing, Johannes Kepler University Linz.
- A. Rihani, PhD Thesis, starting, Johannes Kepler University Linz.
- M. Laube, PhD Thesis, ongoing, Johannes Kepler University Linz.
- C. Himmels, PhD Thesis, ongoing, Johannes Kepler University Linz. (Secondary supervisor)
- C. Manger, PhD Thesis, ongoing, Johannes Kepler University Linz. (Secondary supervisor)
- G. Sopic, PhD Thesis, ongoing, Johannes Kepler University Linz.
- B. Azadi, PhD Thesis, ongoing, Johannes Kepler University Linz.
- D. Hochreiter, PhD Thesis, ongoing, Johannes Kepler University Linz.
- O. Reiter, Semi-supervised classification of injection moulding processes, 2023, Master Thesis [non-disclosure notice], Johannes Kepler University Linz.
- M. Haslgrübler-Huemer, Skill Sensing in Industrial Production, 2022, PhD Thesis, Johannes Kepler University Linz.
- H.P. Ullmann, Extracting Information about Currently Watched Videos from the Pupil Diameter, 2021, Master Thesis, Johannes Kepler University Linz.
- M. Laube, [Master Thesis with non-disclosure notice], 2021, Master Thesis, Johannes Kepler University Linz.
- M. Schobesberger, Feedback Modalities for Attention Management in Minimally Invasive Surgery, 2020, Master Thesis, Johannes Kepler University Linz.
- B. Anzengruber-Tanase, A cognitive ensemble reference architecture, 2019, PhD Thesis, Johannes Kepler University Linz.
- F. Wahl, Methods for monitoring the human circadian rhythm in free-living, 2019, PhD Thesis, University of Passau. (Co-Advisor)
- B. Gollan, Sensor-based Online Assessment of Human Attention, 2017, PhD Thesis, Johannes Kepler University Linz.
- F. Jungwirth, Contour-Guided Gaze Gestures: Eye-based Interaction with Everyday Objects, 2017, Master Thesis, Johannes Kepler University Linz.
- M. Muraier, Natural Pursuits for Eye Tracker Calibration, 2017, Master Thesis, Johannes Kepler University Linz.
- G. Hölzl, Goal oriented sensing in pervasive computing, 2015, PhD Thesis, Johannes Kepler University Linz. (nominated for GI prize for best dissertation 2015)
- P. Halbmayer, Wrist-worn activity recognition based on smart watches, 2015, Master Thesis, Johannes Kepler University Linz.
- G. Pipelidis, Eye-gaze Based Attention Estimation in Minimal Invasive Surgery, 2015, Master Thesis, Johannes Kepler University Linz.
- K. Zia, Agent-based modelling of large-scale socio-technical systems in emergency situations, 2013, PhD Thesis, Johannes Kepler University Linz.

- M. Kurz, Opportunistic activity recognition methodologies, 2013, PhD Thesis, Johannes Kepler University Linz.
- T. E. Noiges, Visualization metaphors to improve depth perception of augmented reality annotations on small monoscopic hand-held displays, 2012, Master Thesis, Johannes Kepler University Linz.
- G. Hölzl, A personalised body motion sensitive training system based on auditive feedback, 2010, Master Thesis, Johannes Kepler University Linz.
- B. Emsenhuber, Das olfaktorische Medium. Die Integration olfaktorischer Information in die Mensch-Maschine-Kommunikation anhand dem Szenario Pervasive Computing, 2009, PhD Thesis, Universität für künstlerische und industrielle Gestaltung Linz. (Co-Advisor)
- A. Riener, Sensor-Actuator Supported Implicit Interaction in Driver Assistance Systems, 2009, PhD Thesis, Johannes Kepler University Linz.
- C. Holzmann, Spatial Awareness of Autonomous Embedded Systems, 2008, PhD Thesis, Johannes Kepler University Linz.
- A. A. Nazari Shirehjini, Interaktion in Ambient Intelligence - Konzeption eines intuitiven Assistenten zur ganzheitlichen und konfliktfreien Interaktion in adaptiven Umgebungen, 2008, PhD Thesis, TU Darmstadt. (Co-Advisor)
- S. Sigg, Development of a novel context prediction algorithm and analysis of context prediction schemes, 2008, PhD Thesis, University of Kassel. (Co-Advisor)
- P. Thon, Peripheral Displays to support team work - Approach of a Design Framework, 2007 (in English), Master Thesis, Johannes Kepler University Linz.
- M. Vastenburg, Please Do Not Disturb. Models of User Experience for Considerate Home Products, 2007, PhD Thesis, TU-Delft. (Co-Advisor)
- P. Ferrara, Modulare Simulation elastischer Roboter, Fallstudie ebenes Mehrfachpendel, 2007, PhD Thesis, JKU Linz. (Co-Advisor)
- H. Radi, Adding Smartness to Mobile Devices. Recognizing Context by Learning from User Habits, 2006 (in English), Master Thesis, Johannes Kepler University Linz.
- M. Hechinger, A Peer-to-Peer Framework for mobile ad-hoc networks, (in English) 2005, Master Thesis, Johannes Kepler University Linz.
- S. Oppl, Context-aware Group-Interaction, 2004 (in English), Master Thesis, Johannes Kepler University Linz.
- C. Holzmann, Location Sensing for Context-Aware Applications, 2004 (in English), Master Thesis, Johannes Kepler University Linz.
- M. Reichör, TangibleControl - Universelle TUIs mittels Accelerometer, 2004 (in English), Master Thesis, Johannes Kepler University Linz.
- R. Mayrhofer An Architecture for Context Prediction, 2004, PhD Thesis, Johannes Kepler University Linz.
- W. Beer, Supporting Context Awareness in Highly Dynamic Network Environments, 2004, PhD Thesis, JKU Linz. (Co-Advisor)
- M. Keller, Experiencing an augmented reality via vision based see through systems, (in English) 2003, Master Thesis, Johannes Kepler University Linz.
- M. Miesbauer, Access- and Interaction Control for Public Communication Displays, (in English) 2003, Master Thesis, Johannes Kepler University Linz.
- M. Armbruckner, Multi-User Interaction in ad-hoc Networks, (in English), 2002, Master Thesis, Johannes Kepler University Linz.
- H. Seyringer, RFID-Identifikation zur zeitnahen Notifikation in mobilen Anwendungen, February 2002, Master Thesis, Johannes Kepler University Linz.

- J. Blüml, Multi-User Interaction via Public Displays, (in English) June 2002, Master Thesis, Technical University of Vienna.
- S. Vogl, Coordination of Users and Services via Wall Interfaces, 2002, PhD Thesis, JKU Linz.
- A. Santoro, Semi-Asynchronous Checkpointing for Optimistic Parallel Simulation, 2002, PhD Thesis, Università di Roma, Italy. (External Reviewer)
- M. Braun, Graph Based Characterization of Parallel Programs, 2000, PhD Thesis, University of Vienna. (Co-Advisor)
- G. Kathan, Wireless Multiuser Applications. A WebWall Backend Prototype Implementation, (in English), 2001, Master Thesis, University of Vienna.
- B. Dangl, Enabling Technologies for the Virtual Enterprise, 2000, Master Thesis, University of Vienna.
- H. Gruber, SMS basierte Echtzeitnotifikation, 2000, Master Thesis, University of Vienna.
- M. Wieland, Handgestenbasierte Windows Desktop Kontrolle, 2000, Master Thesis, University of Vienna.
- C. Mayerhofer, Dynamische Errichtung Dreidimensionaler Räume im Internet. Eine Darstellung von Virtual-Reality Systemen, sowie die Implementierung eines 3D Raumplanungstools mit Java und VRML, 2000, Master Thesis, University of Vienna.
- C. Scheiner, Electronic Voting, 2000, Master Thesis, University of Vienna.
- E. Klauser, Elektronische Entscheidungssysteme, 1999, Master Thesis, University of Vienna.
- A. Geiger, Innovative Applications of Video in Telecooperation, (in English), 1999, Master Thesis, University of Vienna.
- K. Takacs, Generierung von VRML-Code zur Darstellung von Wohnraum, 1999, Master Thesis, University of Vienna.
- Johnson J., N-MAP: A tool for Performance Oriented Developmnet of Parallel Programs, (in English), October 1996, Master Thesis, Technical University of Vienna.
- Ph. Amann, Cooperation in Distributed Environments, (in English), 1996, Master Thesis, University of Vienna.
- M. Richter, Forecast Methods for Adaptive Distributed Simulation, (in English), 1996, Master Thesis, University of Vienna.
- H. Trzil, The PaNMAP for visual parallel program development, (in English), 1995, Master Thesis, University of Vienna.
- R. Tschopp, From N-MAP to PatternTool, (in English), 1995, Master Thesis, University of Vienna.
- J. Lüthi, Distributed Discrete Event Simulation: Optimistic Protocols with Probabilistic Time Window Adaptation, (in English), 1994, Master Thesis, University of Vienna.
- P. Sack, Benutzeroberflächen von Graphikeditoren, 1992, Master Thesis, University of Vienna.
- G. Csertan, Optimistic Distributed Discrete Event Simulation, (in English), 1991, Master Thesis, University of Vienna.
- P. Hofer, A Message Passing System for a Network of Transputers, 1991, Master Thesis, University of Vienna.
- M. Natter, Eine adaptive Cooling Schedule für die Boltzmann Maschinen Simulation, April 1991, Master Thesis, University of Vienna.
- P. Ferrara, Eye-Hand Coordination with Kohonen Feature Maps, Mai 1991, Master Thesis, University of Vienna.
- G. Kotsis, Interconnection Topologies and Routing for Parallel Processing Systems, (in English), 1991, Master Thesis, University of Vienna.
- G. Aizi, Approaches to the Process- to Processor Mapping Problem, (in English), 1991, Master Thesis, University of Vienna.

- B. Mittermair, Die Behandlung des Mapping-Problems mit Boltzmann Maschinen, Dezember 1991, Master Thesis, University of Vienna.
- J. Schneider, Ein Implementierungsvorschlag für ConcurrentSmalltalk auf einem Transputernetzwerk, 1991, Master Thesis, University of Vienna.
- E. Klug, Anpassungsfähige Menüsysteme, 1990, Master Thesis, University of Vienna.

XX. Teaching¹

a) Lectures at Johannes Kepler University Linz

- **Algorithmen und Datenstrukturen 1, 3 ECTS Lecture, Computer Science B1, INBIPVOALG1**
Language: German; Programming language: Java; Summer Term; Classroom course
Topics: Complexity, Lists/ Stacks/ Queues, Recursion, Backtracking, Trees, Heaps and Priority Queues, Sorting, Digital Sorting, Strings and Patterns, Random Numbers, Randomized Algorithms
Participants: 2020S (171), 2021S (182), 2022S (139), 2023S (187), 2024S (194)
- **Algorithms and Data Structures 1, 3 ECTS Lecture, Artificial Intelligence B1, 536COSCAD1V19**
Language: English; Programming language: Python; Summer Term; Hybrid course
Topics: Complexity, Lists/ Stacks/ Queues, Recursion, Backtracking, Trees, Heaps and Priority Queues, Sorting, Digital Sorting, Strings and Patterns, Random Numbers, Randomized Algorithms
Participants: 2020S (204), 2021S (294), 2022S (337), 2023S (380), 2024S (550)
- **Algorithmen und Datenstrukturen 2, 3 ECTS Lecture, Computer Science B2, Artificial Intelligence B2, INBIPVOALG2**
Language: English; Independent of Programming Language; Winter Term, Hybrid course
Topics: Randomized Algorithms, Search Trees, Hashing, Distributed Hashing, Graphs, Social Graphs, Power Law/Epidemic Spread, Evolutionary Algorithms, Document Graphs, PRAM Algorithms
Participants: 2020W (278), 2021W (342), 2022W (324), 2023W (376), 2024W (511)
Former terms (content and modalities may differ): 2004W, 2005W, 2006W, 2007W, 2008W, 2009W, 2010W, 2011W, 2012W, 2013W, 2014W, 2015W, 2016W, 2018W, 2019W
- **Embedded and Pervasive Systems, 3 ECTS Lecture, Computer Science B3, INBIPVOEMPS**
Language: German; Summer Term; Classroom course
Topics: Introduction to Embedded Systems, Identification/ Biosignals/ Environmental Sensors, Localization/ Positioning/ Motion, Smart Phones/ Communication/ Actuators, Nonfunctional System Characteristics, Time/ Time Models/ Clock Synchronisation, Scheduling, Realtime, Concurrent Models of Execution, Energy Efficient Design
Participants: 2020S (137), 2021S (167), 2022S (140), 2023S (160), 2024S (140)
Former terms (content and modalities may differ): 2008S, 2009S, 2010S, 2011S, 2012S, 2013S, 2014S, 2015S, 2016S, 2017S, 2018S, 2019S
- **Pervasive Computing: Systems and Environments, 3 ECTS Lecture, Computer Science M1, Artificial Intelligence M1, Elective Track, 921PECOPSEV13**
Language: English; Winter Term; Hybrid course
Topics: Historical roots/ Vision/ Paradigms, Enabling Technologies for Identification/ Positioning/ Localization and Tracking, Wireless Communication, Sensors and Actuators, Networked Embedded System Architectures, Pervasive Computing Middleware, Context-aware Design and Development, Coordination/ Unobtrusiveness/ Multimodal Interaction, Ethnographic/ Social/ Legal/ Security and Privacy Issues
Participants: 2020W (43), 2021W (44), 2022W (35), 2023W (72), 2024W (88)
Former terms (content and modalities may differ): 2007W, 2008W, 2009W, 2010W, 2011W, 2012W, 2013W, 2014W, 2015W, 2016W, 2018W, 2019W

¹ * with colleagues

- **Pervasive Computing: Design and Development, 3 ECTS Lecture, Computer Science M1, Artificial Intelligence M1, Elective Track, 921PECOPDDU13**
Language: English, Winter Term, Hybrid course
Topics: Pervasive Computing Design Process, Emergence/ Adaptation/ Intelligence, Ensembles and Swarms, Location/ Mobility/ Awareness, Design Abstractions for Realtime/ Context (Multi-sensors)/ Location and Space, Autonomy/ Self-management and Self-organisation/ Emergent Behaviour
Participants: 2020W (41), 2021W (47), 2022W (35), 2023W (86), 2024W (92)
Former terms (content and modalities may differ): 2011S, 2012S, 2012W, 2013W, 2014W, 2015W, 2016W, 2018W, 2019W
- **Pervasive Computing (Teacher Education Studies), 2h Lecture+1h Lab: 2005W, 2006W, 2007W, 2008W, 2009W, 2010W, 2011W, 2012W, 2013W, 2014W, 2015W, 2016W**
- **Softwareentwicklung 1, 2h Lecture, Computer Science B1, INBIPVOSOF1: 2001W, 2002W, 2003W, 2004W, 2005W, 2006W, 2007W, 2008W, 2009W, 2010W, 2011W, 2012W, 2013W, 2014W, 2015W, 2016W, 2018W**
- **Telekooperation, 2h Lecture, INBEVOTEKO: 2002W, 2003W, 2004W, 2005W, 2006W**

b) Seminars and Laboratories at Johannes Kepler University Linz

- **Seminar in AI, 3 ECTS Seminar, Artificial Intelligence B2, 536AIBASAI19**
The objective of the seminar is to teach and practice scientific methods by studying advanced topics of Artificial Intelligence. Students have to work on a certain part of the seminar topic independently, do literature research, and present and discuss their insights, findings, and results to an audience.
2022S, 2023S, 2024S
- **Practical Work in AI, 7.5 ECTS Laboratory, Artificial Intelligence B3, 536AIBAPRWP21**
The goal of this practical work is to improve practical research skills, such as, understanding, improving, comparing, and testing published algorithms, analyzing data sets, or solving a more theoretical problem. Students are required to understand a current practical problem in Artificial Intelligence or a related field and to independently work on solving it computationally or mathematically.
2022W, 2023W, 2024W
- **Seminar in AI (Master), 3 ECTS Seminar, Artificial Intelligence M2, 993SEPTSAIS19**
The objective of the seminar is to teach and practice scientific methods by studying advanced topics of Artificial Intelligence. Students have to work on a certain part of the seminar topic independently, do literature research, and present and discuss their insights, findings, and results to an audience.
2022W
- **Practical Work in AI (Master), 7.5 ECTS Laboratory, Artificial Intelligence M2, 993SEPTPRWP19**
The goal of this practical work is to improve practical research skills, such as, understanding, improving, comparing, and testing published algorithms, analyzing data sets, or solving a more theoretical problem. Students are required to understand a current practical problem in Artificial Intelligence or a related field and to independently work on solving it computationally or mathematically.
2022W
- **Seminar in Pervasive Computing, 3 ECTS Seminar, Computer Science M2, 921PECOPECS13**
The seminars guide students to do scientific work.
2002W, 2003S, 2003W, 2004S, 2004W*, 2005S, 2005W*, 2006S, 2006W*, 2007S*, 2007W, 2008S*, 2008W*, 2009S*, 2009W*, 2010S*, 2010W, 2011S*, 2011W, 2012S*, 2014S*, 2015S, 2016S, 2018S*, 2019S*, 2020S*, 2021S*, 2022S*, 2023S*, 2024S*

- **Project in Pervasive Computing, 7.5 ECTS Laboratory, Computer Science M2, 921PECOPECP13**

By working on a non-trivial and coherent project from the area of the Major Subject, students should demonstrate their ability to apply the acquired knowledge from the Major Subject in a practical setting.
2008S, 2009S*, 2010S*, 2011S*, 2012S*, 2013S, 2014S*, 2015S*, 2016S, 2018S*, 2019S, 2020S*, 2021S*, 2022S*, 2023S*, 2024S*
- **Pervasive Computing: Systems and Environments, 1.5 ECTS Laboratory**

Students gain hands-on experience in all phases of pervasive system design and development.
2008W, 2009W, 2010W, 2011W, 2015W, 2016W, 2022W*

Pervasive Computing: Design and Development, 1.5 ECTS Laboratory

Students gain hands-on experience in all phases of pervasive system design and development.
2011S, 2015W, 2016W, 2022W*
- **Projektpraktikum (Project Practical), 7.5 ECTS Laboratory, Computer Science B3, INBIPPRBACH**

Composition and presentation of a Bachelor's Thesis.
2002W, 2003W, 2004S, 2004W, 2005S, 2005W, 2006S, 2006W*, 2007S*, 2007W*, 2008S*, 2008W, 2009S*, 2009W*, 2010S*, 2010W, 2011S, 2011W, 2012S, 2012W, 2013S*, 2014S*, 2015S*, 2016S, 2018S*, 2019S, 2021S*, 2023S*, 2024S*
- **Bachelor's Thesis Seminar in AI, 9 ECTS, Artificial Intelligence B3, 536BAARBTS19**

Composition and presentation of a Bachelor's Thesis.
2023S, 2024S
- **Master's Thesis Seminar, 8 ECTS Seminar, Computer Science M2, 921MAAR13**

The Master's thesis seminars should be attended while students work on their Master's thesis.
2000W, 2001W, 2001S, 2002S, 2002W, 2003S, 2003W, 2004S, 2004W, 2005W, 2006W*, 2007W*, 2008S*, 2008W*, 2009S*, 2009W*, 2010W, 2010S, 2011W, 2011S, 2012W, 2012S, 2013S, 2013W, 2014S*, 2014W*, 2015S*, 2015W, 2016S*, 2016W*, 2017S*, 2018W*, 2018S, 2019W, 2019S, 2020W, 2021W, 2022W, 2023S, 2024S
- **Master's Thesis Seminar, 3 ECTS Seminar, Artificial Intelligence M2, 993MAARMTSS19**

Composition and presentation of a Master's Thesis.
2022W, 2024S
- **PhD Seminar in Computer Science, 4.5 ECTS Seminar, Doctoral Programme**

Presentation and discussion of the PhD work.
2011W, 2012S, 2012W, 2013S, 2013W, 2014S, 2014W, 2015S, 2015W, 2016S, 2016W*, 2017S*, 2018W*, 2018S*, 2019W*, 2019S*, 2020W*, 2020S*, 2021S*, 2021W*, 2022S*, 2022W*, 2023S*, 2023W*, 2024S*, 2024W*

Former: Seminars in Computer Science (Doctoral programme), 3h Seminar
2000W, 2001S, 2001W, 2002S, 2002W, 2003S, 2003W, 2004S, 2004W, 2005S, 2005W, 2006S, 2006W, 2007S*, 2007W*, 2008S*, 2008W*, 2009S*, 2009W*, 2010S*, 2010W, 2011S
- **Seminar aus Informatik**, 2h Seminar: 2008W, 2009W, 2011W, 2012S
- **Projektpraktikum**, 10h Lab: 2002W, 2004W*, 2005S*, 2005W*, 2006S*, 2006W*, 2007S*
- **Privatissimum für Dissertanten 1**, 3h PhD Seminar
2001W*, 2002W, 2004W*, 2005W*, 2006W*, 2007W*, 2008W*
- **Dissertantenstunde**, 3h PhD Seminar: 2000W, 2001S, 2002S
- **Real-Time Systems**, 2h Seminar: 2009S
- **Praktikum aus Pervasive Computing**, 5h Lab: 2008S*, 2009S*, 2010S*, 2011S*, 2013S*
- **Praktikum aus Informatik**, 5h Lab: 2008*

c) Courses at University of Vienna

- Entwicklung Paralleler Programme, 3h Lecture: 1992W, 1993W, 1994W
- Grundlagen Verteilter und Paralleler Verarbeitung, 2h Lecture: 1995W, 1996W
- Grundlagen der Parallelverarbeitung, 2h Lecture: 1992W
- Leistungsmodellierung paralleler Systeme, 2h Lecture: 1991S, 1993S, 1994S, 1995S, 1996S, 1997S
- Network Computing I, 2h Lecture: 1997W, 1998W, 1999W, 2000W
- Network Computing II, 2h Lecture: 1997W, 1998W, 1999W, 2000W
- Parallelverarbeitung: Prinzipien und Methoden, 2h Lecture: 1993W, 1994W
- Projektstudium: Parallelverarbeitung, 2h Lecture: 1988W, 1990W
- Software Engineering II, 2h Lecture: 1998S, 1999S, 2000S
- Softwareentwicklung für Verteilte und Parallele Systeme, 3h Lecture: 1995W, 1996W
- Übung zur Einführung in die Informatik I, 1h Lab: 1986W, 1987W, 1988W
- Übung zur Einführung in die Informatik II, 1h Lab: 1988S, 1989S, 1987S
- Übung zur Entwicklung Paralleler Programme, 2h Lab: 1992W, 1993W
- Übung zur Kommerziellen Datenverarbeitung, 2h Lab: 1989W, 1990W, 1991W
- Übung zur Leistungsmodellierung paralleler Systeme, 1h Lab: 1993S, 1994S, 1995S, 1996S, 1997S
- Übung zur Mathematik II f. VW. und Soz., 1h Lab: 1987S
- Übung zu Network Computing I+II, 2h Lab: 1997W, 1998W, 1999W, 2000W
- Übung zu Software Engineering II, 2h Lab: 1998S, 1999S, 2000S
- Übung zur Software Entwicklung I und II, 2h Lab: 1988S, 1990S, 1991S, 1992S
- Übung zur Statistik I, 1h Lab: 1987W
- Praktikum Ib, 2h Lab: 1994S, 1995S, 1996S, 1997S
- Praktikum aus Network Computing, 3h Lab: 1998S, 1999S, 2000S, 2001S
- Proseminar aus Wirtschaftsinformatik, 2h Seminar: 1996S, 1997W, 1997S, 1998W, 1999W, 2000W
- Proseminar aus Informationsverarbeitung: Internet-Computing, 1h Seminar: 1996W
- Seminar aus Informatik: Interactive 3-D Worlds on the WWW, 2h Seminar: 1996W
- Seminar aus Network Computing, 2h Seminar: 1998S, 1999S, 2000S, 2001S
- Konversatorium für Dipl., 2h Seminar: 1997W*, 1998S*, 1998W*, 1999S*, 1999W*
- Forschungsprivatissimum für DissertantInnen, 2h Seminar: 1996W*, 1997S*, 1997W*, 1998S*, 1999S*, 1998W*, 1999W*
- Literaturseminar für DissertantInnen, 2h Seminar: 1996W*, 1997W*
- Methodenseminar für DissertantInnen, 2h Seminar: 1997S*, 1997W*, 1999S*, 2000S*

d) MTA SZTAKI, Technical University, Budapest

- Distributed Software Engineering, Guest Lecture, 14 Course Units

e) Università di Genova, Genova, Italy

- Distributed Simulation, Guest Lecture