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Prof. Dr. Max Mühlhäuser

Personal Information

- Marital status: married, three children
- Nationality: German
- Date of Birth: June 13, 1957
- Birthplace: Pforzheim, Germany

Current Position

- Since 2000** Full Professor **Technische Universität Darmstadt**
- Head, Telecooperation Lab, Dept. of Computer Science
- Functions (selection):*
- Vice Dean (since 2012), Dean (2002-2004), Dean of Studies (until 2002)
 - Speaker, Research Training Group (GradSchool) *Privacy&Trust* (since 2015)
 - Directorate Member, CASED Research Institute for IT-Security (since 2008)
 - Deputy Speaker, Collab. Research Center on *Future Internet* (since 2013)
 - Speaker, Research Training Group (GradSchool) *E-Learning* (until 2010)
 - Head, Departmental Computing Services (until 2013)

Professional Career

- 1995-1999** Full Professor **Universität Linz**
- Head, Telecooperation Division
 - Responsible for a turnkey solution for an entire floor in the Ars Electronica Center Linz, including a series of exhibits and the 'class/conference room of the future'
- 1997** Visiting Professor **University of California UCSD San Diego**
- 1992-1994** Professor (C3) **Universität Karlsruhe**
- Head, Telecooperation Group
 - Co-Head, Telematics Institute
 - 1993 Foundation of Telecooperation Office (TeCO)
- 1989-1992** Professor (C3) **Universität Kaiserslautern**
- Head, Telematics Group; head of multinational research projects in distributed multimedia systems
- 1988-1989** Senior Researcher **Universität Karlsruhe**
- Area Head of 'distributed-software engineering' and 'eLearning'
- 1986-1988** Founding director **Digital Equipment (DEC) Valbonne / Karlsruhe**
- Conceptual designer, founder and head, CEC research lab Karlsruhe
 - research areas: E-Learning, distributed systems, computer networks
- 1981-1986** Research Assistant **Universität Karlsruhe**

Offers and Awards

Professorship Offers	Technical University	Twente (NL)
	Universität	Klagenfurt (A)
	Institut	Eurécom, Sophia Antipolis (F)
	Université de	Montréal (CAN)

Further Awards and honors (selected) Adjunct Professorship, Queensland Univ. of Technology; IBM UIMA Award; European Multimedia Award; Director of Honor CEC Karlsruhe; various best paper awards; membership, German National Academic Foundation

Education and Degrees

1986	Doctorate	Universität	Karlsruhe
	• Highest Distinction (summa cum laude)		
1976-1981	Diploma	Universität	Karlsruhe
	• Highest Distinction (awarded)		
1964-1976	High school diploma	High School & Primary School	Pforzheim
	• Best graduate in school, city award		

Research Areas

Since 1997: Ubiquitous Computing (as primary research area)

- Multimodal multi-device interaction: interaction concepts for novel devices, smart/proactive interaction, UI engineering)
- Middleware, Services, and Concepts for Smart Cities and Smart Spaces
- Privacy and Trust in ubiquitous computing
- Secure and Resilient Critical Infrastructures
- Large networks infrastructures (WSN, P2P, and OSN [social networks])
- Knowledge Work and Learning

Since 1987: Knowledge Processing and E-Learning

- Semantic based knowledge processing and Web 2.0
- Computer augmented teaching venues: *Digital Lecture Hall (DLH)*, *Class/Conference Room of the Future (CCF)*, *Learning Appliances*
- Mobile learning (Notebook University)
- Ambient learning: *Learning@work*
- Reusable educational and didactical strategies on the Web

1987-1997: Cooperative Distributed Multimedia Systems

(in 1997, integrated with ubiquitous computing research)

- BioAnalog approaches for lifelong media streams
- DigitalVideo: truly non linear video browsing and editing in 3D
- Music: interactive music making (House-of-Music exhibit in Vienna is still being further developed)
- Compression: ultra fast video compression
- Quality of Service: Internet available bitrate / congestion avoidance
- CSCW: component based cooperation platform

Since 1981: Networks & Distributed Systems

(in 1997, integrated with ubiquitous computing research)

- Software engineering and programming languages for distributed software
- distributed simulation of distributed software and its visualization

Teaching Subjects

At present: Complete graduate cycle plus undergraduate teaching

- Lecture NCS/TK0: Computer Networks & Internet
- Lecture TK1: Distributed Algorithms, Distributed Programs
- Lecture TK2: Web Engineering and Knowledge Networks
- Lecture TK3: Ubiquitous Computing
- Lecture HCI: Introduction to Human Computer Interaction
- Lecture TK*: Distributed Multimedia Systems
- Corresponding exercises, practical lab courses, seminars, Theses (intermediate / Bachelor / Master / Diploma)
- Undergraduate Teaching, e.g., Fundamentals of CS
- Special training in human communication and scientific research work

In the past: Various additional topics taught

- In particular: interactive systems, simulation, performance evaluation, specification & verification (all emphasizing distributed systems)

Project Management

Industry: Numerous national and international projects
e.g., SAP, Siemens, Volkswagen, Lufthansa, IBM, AGT

Public Funding: Numerous **Collaborative** projects (individual grants not listed), funded by: German Research Foundation DFG, Fed. Ministry of Education & Research (BMBF) and of Economy (BMW); Government of Hesse; European Union (FP5–8), formerly: Austrian and French research foundations. *Examples:*

- DFG: 2 *Collaborative Research Centers* (Sonderforschungsbereich; 1 as Deputy Speaker), 4 *Research Training Groups* (Graduiertenkolleg; 2 as speaker/head); 1 Research Group (Forschergruppe). Topics include: Future Internet, Ubiquitous Computing, IT Security, Privacy & Trust, eLearning
- BMW: e.g., lighthouse project on Internet-of-Services (Theseus/TEXO)
- EU: IP 'Smart Products' (Scientific Coordinator), various others as PI

Selected Memberships and Committees

Academic committees: Membership / presidency in over a dozen university related committees

Editorial Boards: ACM Transactions on Internet Technology, Pervasive Computing and Communications, Intl. J. Web Engineering, J. Distance Education Technology, J.UCS

Research communities: On average 2-3 (Co-)Organizer / PC Chair roles per year; *examples:* WWW, ACM Multimedia, Percom, IEEE Intl. Symp. Multimedia, Ambient Intelligence

PC-Memberships: 10-15 conferences and workshops of different size/quality per year

Reviews and Audits: Reviewer for several national (D, F, N, USA, A, ...) und European research funding organizations; curatorship, audits, and consultancy for public and industrial research institutes and programs (e.g., Fraunhofer-Gesellschaft, Daimler-Chrysler, SAP, SMEs); recruitment committee member for professorships at various European universities

Selected Achievements

Publications: Well over 400 peer reviewed publications; h-Index 28 (Google Scholar)

Funding acquired: Years 2009 – 2014: on average 1.4 Million € per year

Supervision: PhDs: 51 completed as 1st reviewer; 23 as 2nd reviewer; 18 upcoming; on average about 40 BSc./MSc. theses per year at TK lab