Technical University of Darmstadt Telecooperation Lab, FB20 Hochschulstr. 10

64289 Darmstadt, Germany

Office Phone [+49] (6151) 1623-200 Office Fax [+49] (6151) 1623-202 E-Mail: max.muehlhaeuser@acm.org



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) Dean (2016–2018, 2002–2004), Vice Dean (2014–2016),

Dean of Studies (2001-2002)

Speaker, Research Training Group (GradSchool) *Privacy&Trust* (since 2015) Deputy Speaker (2013–2020) and PI (since 2013), Collab. Research Center

'MAKI' on Future Internet

Directorate Member / Research Area Head,

IT-Security Research Institutes CASED (since 2008), then ATHENE

Head, Departmental Computing Services (until 2013)

Speaker, Research Training Group (GradSchool) E-Learning (until 2010)

Professional Career

1995–1999 Full Professor Universität Linz

Head, Telecooperation Division

Responsible for turnkey-ready entire floor at 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 Corp. 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

Honors, Offers, Awards

Honors Academy member, acatech German Academy of Tech. Sciences (since 2016)

Adjunct Professor, Queensland Univ. of Technology; numerous best paper awards; IBM UIMA Award; European Multimedia Award; Director of Honor

CEC Karlsruhe; member, German National Academic Foundation

Professorship Offers Technical University Twente (NL)

Universität Klagenfurt (A)

Institut Eurécom, Sophia Antipolis (F)

Université de Montréal (CAN)

Education and Degrees

1986 Doctorate Universität Karlsruhe

Highest Distinction (summa cum laude)

1976–1981 Diploma Universität Karlsruhe

Highest Distinction (awarded)

Current and Former Research Areas

Since 2005: Ubiquitous Computing – combining four fields of computer science:

Human computer interaction (immersive, on-body, tangible, and fabricated in-

teraction, hand / room / city scale interaction, telepresence)

Networks and distributed systems (edge computing, middleware and services

for Smart Cities and Spaces, big wireless and social networks)

Proactive intelligent systems (multi-assistant platforms for ubiquitous compu-

ting, intelligent business process analytics, spatiotemporal prediction)

Privacy, trust and cybersecurity (anonymous communication, cooperative botnet / intrusion detection, trust-based assessment of security settings)

Since 1988: Knowledge Processing and E-Learning

Semantic based knowledge processing and Web 2.0

Computer augmented teaching venues: Digital Lecture Hall (DLH), Class/Con-

ference Room of the Future (CCF), Learning Appliances

Mobile learning (Notebook University)

Ambient learning: Learning@work

Reusable educational and didactical strategies on the Web

1987–2005: Cooperative Distributed Multimedia Systems

(in 1997, integrated with Bio-analog approaches for lifelong media streams

ubiquitous computing reDigital Video: truly non-linear video browsing and editing in 3D

search) Music: interactive music making (House-of-Music exhibit in Vienna is

still being further developed)

Compression: novel fast video compression scheme

Quality of Service: Internet available bitrate / congestion avoidance

CSCW: component based cooperation platform

Since 1981: Networks & Distributed Systems

(in 1997, integrated with Software engineering and programming languages for

ubiquitous computing re- distributed software

search) distributed simulation of distributed software and its visualization

Teaching Subjects

At present: Complete graduate cycle plus undergraduate teaching

Lecture on Computer Networks & Internet

Lecture on Distributed Algorithms, Distributed Programs

Lecture on Ubiquitous Computing

Lecture on HCI: Introduction to Human Computer Interaction

(not regularly) Lecture on Web Engineering and Knowledge Networks (not regularly) Lecture on Privacy & Trust in Networked Systems (not regularly) Lecture on Distributed Multimedia Systems

Corresponding exercises, practical lab courses, seminars, Theses (intermediate / Bachelor / Master / Diploma)
Undergraduate Teaching, e.g., Fundamentals of CS

Skills training (scientific research, publications, human communication)

In the past: Various further topics taught

In particular: interactive systems, simulation, performance evaluation, specifi-

cation & verification (all emphasizing distributed systems)

Project Management

Industry: Numerous national and international projects

e.g., SAP, Siemens, Royal Bank of Canada, VW, Honda, Lufthansa, IBM

Public Funding: Numerous **Collaborative** projects (individual grants not listed), funded by:

German Research Foundation DFG, Fed. Ministry of Education & Research (BMBF) and of Economy (BMWi); Government of Hesse; European Union (FP5–8), formerly: Austrian and French research foundations. *Examples:* DFG: two *Collaborative Research Centers* (Sonderforschungsbereich; one as Deputy Speaker), four *Research Training Groups* (Graduiertenkolleg; two as speaker); Research Unit (Forschergruppe). Topics include: Future Internet,

Ubiquitous Computing, IT Security, Privacy & Trust, eLearning BMBF: e.g., project on smart critical energy infrastructures

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

Steering Commitees / SC member: IEEE Trans. Multimedia; EB: ACM IMWUT, ACM ToIT, J.UCS; Editorial Boards: before: Elsevier PMC, Intl. Jrnl. Web Engineering, J. Distance Edu. Technology

Research On average 2-3 (Co-)Organizer / PC Chair roles per year; examples: WWW,

communities: ACM Multimedia, ACM Ubicomp, IEEE Percom, IEEE ISM, ECOOP

PC-Memberships: On average, 8 conferences and workshops of different size/quality per year

Reviews and Audits: Reviewer for several national (D, F, N, USA, A, PT, FIN, ...) und EU research

funding organizations; curatorship / audits / consultancy for public & industrial research institutes and programs (e.g., Fraunhofer-Ges., SAP, Daimler, SMEs); professorships recruitment comm. member at various European universities

Selected Achievements

Publications: 549+77 peer reviewed conference+journal articles; 18 books / 46 chapters

h-Index 41 (Google Scholar); (all numbers by end 2020)

Funding acquired: Last ten years: on average ~1.5 Million € per year

Supervision: PhDs: 71 completed as 1st reviewer; 32 as 2nd reviewer; 35 Postdocs super-

vised, 21 professors among alumni; more than 45 BSc./MSc. theses per year