

# Curriculum Vitae



Dr.-Ing. Klaus Diepold

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**Education**

1992 **Doktor-Ingenieur Degree** (~ PhD) in Electrical and Computer Engineering from Technische Universität München (TUM)

1987 **Diplom-Ingenieur Degree** (~ MSc) in Electrical and Computer Engineering, Technische Universität München (TUM)

1981 Abitur (~ High School degree), Theresiengymnasium München

## Professional Experience

Since 10/2008 **DOTS – Seminare GbR**, Ottobrunn, Germany – Partner

- Organisation Development, Trainings, Seminars
- Technical Consulting for Investors, Technology Transfer, Patent Strategy
- [www.dots-seminare.de](http://www.dots-seminare.de)

Since 04/2002 **Technische Universität München, Department of Electrical Engineering and Information Technology**, Professor, Chair for Data Processing

### Research Interests

- Visual Computing, Video Coding (MPEG-4), Computer Vision
- Signal Processing for 3D Audio and 3D Video
- Time-Varying System Theory and Fast Algorithms for Structured Matrices
- Machine Learning and Data Mining in Cognitive Systems
- Information Security and Cryptology, High Speed Cryptography, Trusted Computing, Digital Rights Management,
- Multimedia Signal Processing and Standardization (MPEG-4, MPEG-A)
- High-Fidelity Telepresence and Teleaction
- Technology Transfer and Innovation Management

### Activities

- 2011 Scientific Director – Center for Digital Technology and Management
- 2011 Founding Member of ABBY-Net – Albertan-Bavarian Research Network ([www.baay.net.org](http://www.baay.net.org))
- 2010 – iCore Visiting Professor – University of Alberta, Edmonton, Canada

- 2010 Founding Member COST Action IC 1003 – Qualinet ([www.qualinet.eu](http://www.qualinet.eu))
- 2010 Secondary Appointment TUM – Department of Informatics
- 2008-2011 Member of the Advisory Board – TUM Inst. for Advanced Study
- 2007 Visiting Scientist, NICTA, Canberra, Australia
- 2005-2010 Dean of Study, Dept. of Electrical Engineering, TUM
- Since 2006 – Member Executive Board – Cluster of Excellence “Cognition for Technical Systems” (CoTeSys)
- Since 2004 – Board member for Center for Digital Technology and Management (CDTM)
- 2006-2010 Principle Investigator - Cooperative Research Center SFB 453 “High Fidelity Telepresence and Teleaction”
- 2006-2009 Managing Director Cooperative Research Center SFB TR-28 “Kognitive Automobile”
- ISO Standardization (MPEG)
- 2004 – Organizer of the 68<sup>th</sup> MPEG Meeting in Munich ([www.mpeg-68.de](http://www.mpeg-68.de))
- since 2004 – Initiator and Organizer of “Ohm Lecture” at TUM ([www.ohm-lecture.org](http://www.ohm-lecture.org))
- Project Evaluator for the European Commission

- 11/1999 – 12/2001 **DynaPel Laboratories GmbH**, Ismaning, Germany – Managing Director  
**DynaPel Systems, Inc.** New York, NY – Chief Technical Officer (CTO)
- DynaPel Laboratories GmbH is a 100% subsidiary of DynaPel Systems, Inc.
  - Representation in MPEG Standardization activities
  - New Corporate Strategy for Video Technology and Video Security
  - Product Definition and Development for MotionPerfect™ and SteadyHand and DynaPel’s video coding products
  - 2000 - Innovative Software of the Year Award for MotionPerfect
  - Filed various patents in video signal processing
  - Interfacing with investors
- 10/1994 – 10/1999 **International Digital Technologies Deutschland GmbH**, Ismaning, Germany  
 Chief Scientist and Technical Director
- Research for Video Signal Processing, Motion Estimation and Video Compression (MPEG-2, MPEG-4)
  - Statistical Data Analysis and System Theory
  - Represented the Corporation in ISO Standardization Organizations (MPEG)
  - Managed Development and Implementation of a Novel Compression Technology for Digital Video
  - Technical Consulting on Video Technology for Kirch Group
- 09/1994 – 10/1994 **BetaTechnik GmbH**, Unterföhring, Germany – Project Manager
- Management of a Technical Due Diligence for New Investment Project of the Kirch Group
  - Technical Evaluation of a New Proposal for Compressing Broadcast Video
- 04/1993 – 08/1994 **Institut für Rundfunktechnik GmbH**, München (Institute for Broadcasting

Technology) – Research Engineer

- Represented the Public Service Broadcasters of Germany in the national HDTV-T project for the development of a digital system for terrestrial transmission of TV broadcast (DVB-T).
- Developed and operated software system for the simulation of channel coding and receiver synchronization of terrestrial broadcast systems based on OFDM.
- Simulation and assessment of non-linear distortions for TV transmitters sending OFDM signals

01/1993 – 04/1993

**Quantec Tonstudioteknik GmbH**, München – Consultant

- Technical Marketing for professional audio systems in digital recording studios and radio broadcast stations (clock distribution and synchronization of digital audio systems)
- Marketing of Quantec's celebrated professional studio reverb "Yardstick"

12/1988 – 01/1993

**Institute for Network Theory and Circuit Design**, Technische Universität München (Prof. J.A. Nossek), München, Germany – Research Assistant

- Research and teaching in the field of Network Theory, Circuit Design and VLSI Signal Processing
- Doktor-Ingenieur Degree in Electrical and Computer Engineering; , Supervisor: Prof.J.A. Nossek, Thesis Title: Ein abstraktes Kaskadenmodell zur Schur-Parameterisierung von Matrizen.

10/1987 – 11/1988

**Institute for Communication Technology**, University of the Federal Armed Forces, Neubiberg (Prof.K.Tröndle), Germany – Research Assistant

- Research and teaching in the field of Digital Communications Systems, Channel Coding and Digital Modulation Schemes (CPM)

#### **Miscellaneous**

- Member of: ACM SIGGRAPH, DIN NI.29, ISO/IEC JTC1 SC29 WG11 (MPEG), Member of "Münchner Kreis"
- Industry courses and seminars on video coding, MPEG technology, technology push and product innovation
- 1992 Best Paper Award Germany Society of Information Technology (ITG)
- 2000 Award – most innovative software product of the year (MotionPerfect)
- 2004 TUM Student Association's Teaching Award
- 2011 TUM Teaching Award – Freisemester für Lehre

Munich, 16. October 2011