Curriculum Vitae

Priv. Doz. Dr.-Ing. Mathias Wien
Institut of Imaging and Computer Vision
RWTH Aachen University
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Education

Jul. 2018	Habilitation: Visual Media Communication
Feb. 2004	Dissertation: Variable Block Size Transforms for Hybrid Video Coding (Prof. Jens-Rainer Ohm, Prof. Dietrich Meyer-Ebrecht)
Oct. 1997	Master Thesis: Adaptive Subband Decomposition for Coding of Motion Compensated Residual Images
1991 – 1997	Rheinisch–Westfälische Technische Hochschule Aachen Study program Electrical engineering, Communications engineering

Employment

since Jul. 2018	Akademischer Direktor and Privatdozent at Lehrstuhl für Bildverarbeitung (Institut for Imaging and Computer Vision) Lead of Visual Media Communication Group RWTH Aachen University
Jul. 2017	Promotion to Akademischer Direktor
Apr. 2009	Promotion to Akademischer Oberrat
Apr. 2006	Appointment to Akademischen Rat (Senior Researcher)
1997 – Jun. 2018	Researcher at Institut für Nachrichtentechnik (Institute for Communications Engineering) RWTH Aachen University

Lectures

since 2018	Visual Media Communication (Master)
2013-2018	Video Coding: Algorithms and Specification (Master)
since 2012	Signal, Systems, and Communication (Master)

Tutoring

since 2018	Digital Image Processing (Master)
since 2018	Mathematical Methods of Electrical Engineering (Bachelor)
2006 – 2018	Basics of Electrical Engineering: Signals and Systems

Standardization

Member:	DIN, ISO/IEC JTC 1/SC 29/MPEG, ITU-T SG16/Q6 VCEG, JVET, JCT-VC, JCT-3VC, JVT
since 2020	Convenor of ISO/IEC JTC 1/SC 29/AG 5 MPEG Visual Quality Assessment
since 2019	(JVET) Co-Chair for AdHoc group on Test Material and Visual Assessment
2017	(JVET) Co-Editor Call for Evidence on *Video compression with capability beyond HEVC*
2014	(MPEG) Co-Chair Comparison of IVC, VCB and WVC Codecs
2010	(JCT-VC) Coordinator of tool experiments for HEVC
2004-2007	(JVT) Co-Editor, AdHoc group chair and Core-Experiments for H.264/AVC Scalable Extension
2000-2003	(JVT) Core experiment coordination for H.264/AVC

Scientific Community

Technical Committees	IEEE Technical Committee *Visual Signal Processing and Communication*, 2015 – 2019
	ITG Fachausschuss 3.2 *Bildkommunikation und Bildverarbeitung*, since 2017 (Germany)
Advisory Board	H2020 IA Film265 (H2020-ICT-2014-1 PID 645500)
Conf. Committees	Technical Program Co-Chair at IEEE VCIP 2022, 2023
	Technical Program Co-Chair at IEEE PCS 2021, 2019
	Area Chair at IEEE ICIP 2020, 2019
	Area Chair at IEEE ICME since 2017
	Co-Chair Special Session *VR Video Coding and Transmission* at IEEE VCIP, Dec. 2017
	Co-Chair *Grand Challenge on Video Compression Technology* at IEEE ICIP, Oct. 2017
	Technical Programm Committee Member at IEEE VCIP 2017
	Co-Chair Special Session *Challenges in Perceptual Compression of Video* at Picture Coding Symposium 2016
	Technical Programm Committee Member at IEEE VCIP 2017, 2016
	Reviewer Committee Member at IEEE ISCAS 2016
	Special Session Chair at Packet Video Conference 2012
	Programm Committee at MobiMedia 2010: Workshop SVCVision
	Programm Committee at MobiMedia 2009: Workshop EUMOB
	Award Committee Member at QoMEX 2009

Corresponding Guest Editor	IEEE Journal on Emerging and Selected Topics in Circuits and Systems, Special Issue on Immersive Video Coding and Transmission, 2018
Associate Editor	IEEE Transactions on Circuits and Systems for Video Technology 2018 – 2021
Area Editor	Elsevier Signal Processing: Image Communication, since 2016
Reviewer	Deutsche Forschungsgemeinschaft, since 2017
Review Journals	IEEE TCSVT, IEEE JETCAS, IEEE TIP, IEEE TCAS-II, IEEE JSTSP, Elsevier SPIC
Review Conferences	IEEE ICIP, IEEE ICASSP, IEEE ICME, IEEE VCIP, IEEE ISCIT, PCS, EUSIPCO, QoMEX
Memberships	IEEE, VDE
Tutorials	*Versatile Video Coding – Algorithms and Specification* IEEE VCIP, online, Dec. 2020, with Benjamin Bross
	Versatile Video Coding – Algorithms and Specification IEEE ICIP, online, Oct. 2020, with Benjamin Bross
	Versatile Video Coding – Algorithms and Specification IEEE ICME, online, Jul. 2020, with Benjamin Bross
	Trends and Recent Developments in Video Coding Standardization IEEE ICME, San Diego, CA, USA, Jul. 2018, with Jens-Rainer Ohm
	Future Video Coding: Coding Tools and Developments beyond HEVC IEEE ICIP, Bejing, CN, Oct. 2017, with Jens-Rainer Ohm
	High Efficiency Video Coding – Coding Tools and Specification: HEVC V3 and Coming Developments IEEE ICME, Seattle, WA, USA, 2016
	High Efficiency Video Coding – Coding Tools and Specification: HEVC Version 2 and Beyond IEEE VCIP, Singapore, 2015
	High Efficiency Video Coding – Coding Tools and Specification IEEE ICME, San Jose, CA, USA, 2013

University Service

University level

since 2008	Member of the university senate (deputy member 2016 – 2022)
2008-2016	Vice chairman of the university senate
2015-2016	Acting chairman of the university senate
Commissions (current)	Statute commission, Steering board of the Center for Teaching and Learning Services
since 2020	Ombudsman for safeguarding good scientific practice (one of four members)
since 2016	Chairman of the group representation for academic staff

Faculty level

since 2008	Member of the faculty board (deputy member since 2016)
since 2018	Chairman for the academic staff
since 2018	Commissioner for digitalization in teaching
Commissions (current)	Statute commission, structure and budget commission, habilitation commission, tenure commission

Aachen, Monday 20th February, 2023