



Program professional event  
 "Computational Imaging"  
 Venue: Leica World Wetzlar  
 Date: October 22./23. 2019  
 talk period: 25 minutes plus 5 minutes discussion  
 lecture language English



Day one: Tuesday, 22. Oktober 2019 moderation Prof. S. Chatterjee

Time					
focus	start	end	speaker	from	topic
Welcome	13:00	13:10	M. Wagner	Major Town Wetzlar	Welcome
	13:10	13:40	Dr. A. Kaufmann	Chairman Leica Camera AG	Disruptive Technologies- a Challenge for Established Companies
	13:40	13:50	Niggemann / Chatterjee	Wetzlar Network / Uni Gießen	Welcome, Introduction
Overview	13:50	14:20	Dr. Chowdhury	Univ. of California (UC) Berkeley	Computational Microscopy for Biological Imaging
	14:20	15:00	coffee break		
	15:00	15:30	Dr. E. Y. Peng	Stanford University	Co-designing Optics and Algorithms: Computational Imaging and Diffractive Optics
	15:30	16:00	Dr. Volchkov	MPI Tübingen	MTF estimation with Deep Learning
	16:00	16:30	Prof. M. Hullin	Univ. Bonn	4 D imaging through Spray on Optics
	ab 18:00	dinner together			

Day two: Wednesday, 23. October 2019 moderatorion forenoon Prof. M. Degünther, moderation afternoon Dr. Dück

focus	start	end	speaker	from	topic
AI, Deep Learning, Tools	09:00	09:30	Dr. Windberger	IDS Imaging	From Image to Information with on Camera Neural Networks for IDS NXT
	09:30	10:00	J. Huard	Mathworks	Deep Learning for Computer Vision with MATLAB
	10:00	10:30	Prof. P. Favors	Universität Bern	Blind Deconvolution: A Journey from Model Based to Deep Learning Methods
	10:30	11:15	coffee break		
CI and Images	11:15	11:45	Prof. D. Faccio	Univ. Glasgow	Time-of-flight Computational Imaging
	11:45	12:15	Prof. S. Roth	TUD, Visual inference lab	Deep Learning meets non local-methods for Image Restoration
	12:15	12:45	Prof. Y. Altmann	Heriot Watt Univ. Edinburgh	Bayesian Methods for scalable and robust 3D Imaging and Sensing in the Photon-starved Regime
	12:45	14:00	lunchtime		
Applications	14:30	15:00	Dr. Kaminski	Leica Camera	The Elephant in the Room - Physical limits of Computational Imaging
	15:30	16:00	S. Tille	Leica Microsystems	Fusion of Optics & Digital Imaging
	16:00	16:30	H. Kreipe	Continental	Autonome Driving Cars
		from 16:30	conclusion, get together, optional guided tour to Leica Camera		