Programme of SVCP 2026

Monday, 29.6.2026

8:30 - 9:00	Registration		
9:00 - 9:10	Welcome	Welcome by Vice President of BTU **Prof. Dr. Wolfram Berger**	
9:10 -10:00	**Keynote + Diskussion**		
	Thomas Volkert	From Data Chunks to Live View: Between an Ideal Streaming World and Reality	Volkert Software
	Session 1:	**Enhanced Compression** **Chair: André Kaup**	
10:00 - 10:20	Tim Claßen	Enhancement Filtering Methods for Adaptive Resolution Coding	RWTH Aachen
10:20 - 10:40	Sushmita Raj	Reducing Blocking Artifacts in Video Coding: Comparing OBMC and Deblocking Filtering	TU Ilmenau
10:40 -11:00	Marc Windsheimer	Feature Compression of Visual Foundation Models for General Purpose Coding for Machines	FAU Erlangen
11:00 - 11:30	Coffee break		
	Session 2:	**Cinema & XR** **Chair: Jörn Ostermann**	
11:30 - 11:50	Thomas Eingartner	Controllable Partial Denoising for Cinema: Trading Hallucination Artifacts for Filmic Grain	ARRI
11:50 - 12:10	Paul Wawerek-Lopez	Optimizing Learned Image and Video Compression for Enhanced Versatility towards 360° Projection Formats	FAU Erlangen
12:10 - 12:30	Maria Ritthaler	Patch-based Point Cloud Upsampling using Frequency Superposition	FAU Erlangen
12:30		Joint Photo	
12:30 - 14:00	Lunch at Mensa		
14:00 - 15:00	**Demo Session**	**Modellfabrik & Video Laboratories**	
	Session 3:	**Deep Learning for Image Processing** **Chair: Mathias Wien**	
15:00 - 15:20	Sharda Devi	Image classification and object detection in multimodal image/video data on edge devices	BTU Cottbus
15:20 - 15:40	Alireza Sijavashi	Sensor-Adaptive Infrared Spectral Reconstruction with Plug-and-Play Diffusion Priors	BTU Cottbus
15:40 - 16:00	Mahdi Taheri	Don't Trust Every Pixel	BTU Cottbus
16:00 - 16:20	Coffee Break		
16:00 - 17:00	**Poster Session**	**Image and Video Processing I**	
	Amir Yazpandanah	A Hybrid Hardware–Software Methodology for Power Estimation in Image Processing and Video Applications	University of Rostock
	Amin Qureshi	Energy and time performance estimation of image and video processing algorithms on RISC-V architecture	BTU Cottbus
	Simon Deniffel	Content Adaptive Switchable Hyperprior Networks for Learned Image Compression	FAU Erlangen
	Katja Kossira	Towards Object Segmentation Mask Selection Using Specular Reflections	FAU Erlangen
	Sayeh Janani	Scenario-Aware Energy Consumption Modeling of Video Processing Systems for LCA-Based Environmental Assessment	BTU Cottbus
17:30 - 19:00	Hike	Hiking from Stadthalle to Cavallierhaus Branitz	
19:00 - 22:30	**Social event**	Cavallierhaus Branitz	

Tuesday, 30.6.2026

8:30 - 9:00	Registration		
9:00 - 10:00	**Keynote + Diskussion**		
	Thomas Maugey	Accuracy, Efficiency, Sufficiency: Three Pillars for the Sustainability of Video Streaming	INRIA, Rennes
	Session 4:	**Energy Efficient and Hardware-Friendly Video Communications** **Chair: Benno Stabernack**	
10:00 - 10:20	Emmanuel Sampaio	Compression of Attenuation Maps for Reducing OLED Display Energy Consumption	Interdigital
10:20 - 10:40	Amritha Premkumar	Energy-Aware Multi-Dimensional Video Streaming: Joint Adaptation of Frame Rate, Resolution, Chroma, and Bitdepth	BTU Cottbus
10:40 -11:00	Viktor Herrmann	Towards Hardware-Aware Hybrid Neural Network-Based Video Coding	HHI Berlin
11:00 - 11:30	Coffee break		
11:30 - 12:30	**Poster Session**	**Image and Video Processing II**	
	Prijanka Das	Graph Fourier Transforms for Non-Rectangular Residual Coding for AV1 Wedge Modes	RWTH Aachen
	Dominik Prütting	WaveletTree: A lightweight feature adapter for multilevel Wavelets from JPEG XS	IIS Erlangen
	Diwakara Reddy	A High-Level Feature Model to Predict the Encoding Energy of a Hardware Video Encoder	FAU Erlangen
	Teresa Stürzenhofäcker	Anti-Aliasing Snapshot HDR Imaging Using Non-Regular Sensing	FAU Erlangen
	Teng Siyue	High-Fidelity Video Compression based on Invertible Neural Transform and Implicit Conditioning	University of Bristol
12:30 - 13:00	**Awards, Summary, and Closure**		
13:00 - 14:00	Lunch at Mensa		
14:00 - 16:30	**ITG FA**		

The Summer School is organized with finacial support of

HUAWEI NOKIA