ALLIANCE FOR OPEN MEDIA RESEARCH Symposium 2019

Monday, October 21st	
Address: Google LLC, 55 Spear Street , San Francisco, CA 94105 **Room: US-SFO-1MST-7-Ohlone People**	
Registration:	
08:30 - 09:30	**Registration & Breakfast**
Opening & Status:	
09:30 - 09:40	Welcome & Overview
09:40 - 10:30	AV1 Status from Service Providers
10:30 - 10:50	**Coffee**
Coding Algorithms:	
10:50 - 11:15	*Adaptive Optimal Linear Estimators for Enhanced Motion Compensated Prediction, Kenneth Rose (UCSB)*
11:15 - 11:40	*What Machines Can Learn from Humans About Lossy Compression, Tsachy Weissman (Stanford University)*
11:40 - 12:05	*A Switchable Region-Based Coding Tool for the AV1 Video Codec, Maggie Zhu (Purdue University)*
12:05 - 12:30	*Incorporating Physical Modeling into Deep Generative Networks for Image and Video Compression, Aswin Sankaranarayanan (Carnegie Mellon University)*
12:30 - 13:30	**Lunch**
13:30 - 13:55	*Coding Efficiency Evaluation of AV1 Coding Tools, Ryan Lei (Intel)*
13:55 - 14:20	*An Overview of New Experimental Coding Tools, Sarah Parker (Google)*
Performance & Optimization:	
14:20 - 14:45	*Evaluating Video Codecs Through Objective and Subjective Assessments, Fan Zhang (Bristol University)*
14:45 - 15:10	*Speeding up VP9 Intra Encoder with Hierarchical Deep Learning Based Partition Prediction, Somdyuti Paul (University of Texas at Austin)*
15:10 - 15:35	**Coffee**
15:35 - 16:00	*TBD, Nathan Egge (Mozilla)*
16:00 - 16:25	*Learning-Based AV1 Optimization for VoD and RTC Use Cases, Jinaa Liu (Visionular)*
Still Picture:	
16:25 - 16:50	*AVIF: Overview and Compression Performance, Cyril Concolato (Netflix)*
16:50 - 17:15	*Applying Video Coding Tools to WebP Images, Pascal Massimino (Google)*
Address: Google LLC, 345 Spear Street, San Francisco, CA 94105 **Room: US-SFO-SPE-7-Deck Lounge**	
18:00 - 21:00	Social Event

Tuesday, October 22nd	
Address: Google LLC, 55 Spear Street , San Francisco, CA 94105 **Room: US-SFO-1MST-7-Ohlone People**	
08:00 - 09:00	**Registration:**
	Registration & Breakfast
	ML-Based Encoding:
09:00 - 10:00	Keynote: Opportunities to use Neural Media Compression, George Toderici (Google)
10:00 - 10:25	*Deep Learning for Image Compression, Yao Wang (NYU)*
10:25 - 10:50	*Deep Neural Network Based Frame Reconstruction For Optimized Video Coding - An AV2 Approach, Dandan Ding (Hangzhou Normal University)*
10:50 - 11:15	**Coffee**
11:15 - 11:40	*A Generalized Deep Perceptual Optimizer,* *Yiannis Andreopoulos (iSize)*
	Perceptual Metrics:
11:40 - 12:05	*Perceptually Optimizing Deep Image Compression,* *Li-Heng (University of Texas at Austin)*
12:05 - 12:30	*On Perceptual Coding: Quality, Content Features and Complexity, Patrick Le Callet (University of Nantes)*
12:30 - 13:30	**Lunch**
	Physical Modeling:
13:30 - 13:55	*Informing Video Compression With Physical Simulation,* *Theodore Kim (Yale University)*
	General Compression:
13.55 - 14.20	*Mode-dependent Data-driven Transforms for AV1,* *Antonio Ortega (USC)*
14:20 - 14:45	*Measuring Video Quality with VMAF: Why You Should Care, Christos Bampis (Netflix)*
14:45 - 15:10	*Motion Based Video Frame Interpolation,* *Anil Kokaram (Trinity College Dublin)*
15:10 - 15:30	**Coffee**
	AV1 Implementers Forum:
15:30 - 15:45	*Real-Time AV1 with SVC support in WebRTC,* *Alex Gouillard (CoSMo)*
15:45 - 16:00	*AV1 in the MilliCast Real-Time (>200ms) Streaming Platform: The System Level Point of View, Richard Blakely (Milicast)*
16:00 - 16:15	*SVT-AV1 Encoder, Nader Mahdi (Intel)*
16:15 - 16:30	*High-efficiency AV1 Compression Using dAV1d and Eve,* *Ronald Bultje (Two Orioles)*
16:30 - 16:45	*Overview of FOMS Workshop and Open Issues,* *Michael Dale (Ellation)*
	Panel Session:
16:45 - 17:15	Industry & Academia - How can we Work Together?
17:15	**Close**