### 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

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<tr>
<th>Time</th>
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<tr>
<td><strong>08:00 - 09:00</strong></td>
<td><strong>Registration:</strong></td>
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<tr>
<td>08:00 - 09:00</td>
<td><strong>Registration &amp; Breakfast</strong></td>
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| 09:00 - 10:00 | **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**                                                                                       |
| **13:30 - 13:55** | **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**                                                                                       |
| 15:30 - 15:45 | 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**                                                                                       |