8:00-8:30 – Breakfast Available
8:30 – Welcome: The Organizers
8:30-9:30 – Keynote 1 – Jun Yang, William Kepler Whiteford Professor of Electrical and Computer Engineering, University of Pittsburgh
  • Initial Steps toward Making GPU a First-Class Computing Resource: Sharing and Resource Management
9:30-10:00 – Persistent Data Structures
  • A Case For Persist Barriers in GPUs, Dibakar Gope, Arkaprava Basu, Sooraj Puthoor and Mitesh Meswani, ARM Research and AMD Research
10:00-10:30 – Coffee Break
10:30-12:00 – Applications/Frameworks
  • Overcoming the Difficulty of Large-scale CGH Generation on multi-GPU Cluster, Takanobu Baba, Shinpei Watanabe, Boaz Jessie Jackin, Takeshi Ohkawa, Kanemitsu Ootsu, Takashi Yokota, Yoshio Hayasaki and Toyohiko Yatagai, Utsunomiya University and National Institute of Information and Communications Technology
  • Transparent Avoidance of Redundant Data Transfer on GPU-enabled Apache Spark, Ryo Asai, Masao Okita, Fumihiko Ino and Kenichi Hagihara, Osaka University
  • GPU-based Acceleration of Detailed Tissue-Scale Cardiac Simulations, Neringa Altanaite and Johannes Langguth, Simula Research Laboratory, Norway
12:00-13:30 – Lunch (on your own)
13:30-14:30 – Keynote 2 – Christophe Dubach, University of Edinburgh
  • Generating High Performance GPU Code using Rewrite Rules with Lift
14:30-15:00 – Coffee Break
15:30-16:30 – Concurrent Kernels
  • MaxPair: Enhance OpenCL Concurrent Kernel Execution by Weighted Maximum Matching, Yuan Wen, Michael O’Boyle and Christian Fensch, Trinity College Dublin, University of Edinburgh, Heriot-Watt University
  • Oversubscribed Command Queues in GPUs, Sooraj Puthoor, Xulong Tang, Joseph Gross and Bradford Beckmann, AMD Research, Penn St. University and ARM