1st Workshop of the SEEC Center (August 22, 2014)	Torgersen Hall 1020
Workshop Introduction by Prof. Wu Feng	9:00 AM - 9:10 AM
Scheduling in Heterogeneous Systems  • A Runtime System for High Performance Clusters with Heterogeneous Computing	9:10 AM - 10:00 AM
Ashwin Aji, Ph.D. Student	(25 min)
<ul> <li>Runtime Adaptation for Autonomic Heterogeneous Computing Thomas Scogland, Ph.D. Student</li> </ul>	(25 min)
Break (and/or Informal Discussion)	10:00 AM - 10:15 AM
Democratizing Parallel Computing	10:15 AM - 11:15 AM
<ul> <li>CU2CL: Automated CUDA-to-OpenCL Source-to-Source Translation         Paul Sathre, Post-M.S. Research Programmer</li> <li>MetaMorph: A Modular Library of Malleable Accelerator Primitives for Heterogen         Paul Sathre, Post-M.S. Research Programmer</li> <li>Data Marshalling Primitives in the MetaMorph Library</li> </ul>	(15 min)
<ul> <li>Kaixi Hou, Ph.D. Student</li> <li>Automation Framework for SIMD Vectorization of Parallel Sorting on Manycore I</li> </ul>	(15 min)
Kaixi Hou, Ph.D. Student	(15 min)
Break (and/or Informal Discussion)	11:15 AM - 11:30 AM
OpenDwarfs on Heterogeneous Computing Platforms	11:30 AM - 12:15 PM
<ul> <li>On the Characterization of OpenCL Dwarfs on Fixed and Reconfigurable Platform Konstantinos Krommydas, Ph.D. Student</li> </ul>	(25 min)
<ul> <li>Characterization of Data Access Methods on Heterogeneous Computing Systems Rubasri Kalidas, M.S. Student</li> </ul>	(15 min)
Lunch (On Your Own)	12:15 PM - 1:30PM
Big Data + Big Compute, Part I	1:30 PM - 2:45 PM
<ul> <li>Building A Metadata-Free, Content-Based, Unstructured Data Search Engine Harold Trease, Senior Research Scientist</li> </ul>	(25 min)
<ul> <li>Computational Tasks in Next-Generation Sequencing         Nataliya Timosheveskaya, Postdoc     </li> </ul>	(25 min)
<ul> <li>Transforming Irregular Algorithms for Heterogeneous Computing – Case Studies Jing Zhang, Ph.D. Student</li> </ul>	in Bioinformatics (25 min)
Brief Break (and/or Informal Discussion)	2:45 - 2:50 PM
Big Data + Big Compute, Part II	2:50 - 3:30 PM
<ul> <li>Large-Scale Graph Processing on Heterogeneous Systems</li> <li>Hao Wang, Ph.D. Research Associate</li> </ul>	(25 min)
StreamMR: An OpenCL MapReduce Framework	
Yilong Jin, Ph.D. Student	(15 min)
Break (and/or Informal Discussion)	3:30 - 3:45 PM
<ul> <li>Green Computing and Networking</li> <li>Runtime Power Modeling and Estimation for Graphics Processing Units</li> </ul>	3:45 - 5:00 PM
Vignesh Adhinarayanan	(25 min)
<ul> <li>On the Energy Proportionality of Servers         Balaji Subramaniam     </li> </ul>	(25 min)
<ul> <li>SDN: Not Software Defined Networking but Smarter Dynamic Networking</li> <li>Dr. Mark Gardner, Associate Director at SEEC and Network Manager at the Office</li> </ul>	• •
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