Program for The 1st Workshop on Emerging Applications and Many Core Architecture

Beijing, June 21st, 2008

Session 1. Welcome and Keynote 9:00-10:00

9:00 Welcome, workshop organizers

9:20 Keynote, "Living with iRMS", Bob Liang, Intel Corporation

Break 10:00-10:30

Session 2. 10:30-12:00

10:30 “Computer Vision Applications: Object Detection, Tracking and Alignment", Prof. HaiZhou Ai, Tsinghua University

11:00 "Parallel Depth-Image-Based Rendering (DIBR) Algorithm for the Next Generation 3D-TV Applications", Zhixiang You, Tsinghua University

11:30 "Video-based Rendering", Prof. Shimin Hu, Tsinghua University

Lunch 12:00-1:30

Session 3. 1:30-3:00

1:30 "Virtual World Characterization", Anthony Nguyen, Intel Corporation

2:00 "Physical Simulation Beyond Scientific Computing", Jonathan Su, Stanford University

2:30 "Characterizing Betweenness Centrality Algorithm on Multi-core Architectures", Dengbiao Tu, Chinese Academy of Science

Break 3:00-3:30

Session 4. 3:30-4:30

3:30 "Data-Parallel Large Vocabulary Continuous Speech Recognition on Graphics Processors", Jike Chong, University of California, Berkeley

4:00 "Parallelization and Performance Characterization of Video Mining Applications on Multi-Core System", Eric Li, Intel Corporation

Break 4:30-4:45

Session 5. Panel Discussion 4:45-5:30

4:45 Panel Discussion on "Challenges posted by Emerging Applications to Computer Architectures and our Responses"