



# **InfiniBand, Omni-Path, and High-Speed Ethernet: Advanced Features, Challenges in Designing, HEC Systems and Usage (IT4I training)**

**Tuesday, 23 January 2018**

**8. Demos: Network Management Infrastructure and Tools; \* Subnet Manager; \* Diagnostic Tools: Discovery, Health Monitoring, Performance Monitoring; \* Fabric Management Tools; \* OSU INAM; 9. Common Challenges in Building HEC systems with IB and HSE: Hardware Aspects ; \* Network Adapters and NUMA Interactions; \* Scalability and Memory Overheads; \* Network Switches, Topology and Routing; \* Network Bridges; 10. System Specific Challenges and Case Studies; \* HPC (MPI, PGAS and GPU/Xeon Phi Computing); \* Deep Learning; \* Grid and Cloud Computing; 11. Conclusions, Final Q&A, and Discussion - 207 (16:00 - 17:30)**