The current schedule is shown below.

Wednesday, May 2nd

08:30-09:00  
**Session 1:** Opening Session

09:00-10:00  
**Session 2:** Keynote Talk (Jack Dongarra, University of Tennessee, USA), Chair - Tarek El-Ghazawi, George Washington University, USA

10:00-10:30  
**Session:** Coffee Break

10:30-12:00  
**Session 3A:** Network-aware Scheduling (Chair - Amy Apon, Clemson University, USA)

10:30-11:00  
Zhouzhao Li, Haying Shen and Ankur Sarker. A Network-aware Scheduler in Data-parallel Clusters for High Performance

11:00-11:30  
Xiaoyang Zhang, Chase Wu, Liudong Zuo, Aqinou Hou and Yongqiang Wang. Bandwidth Scheduling with Flexible Multi-Paths in High-performance Networks

11:30-12:00  
Enui Hwang, Hyungoo Kim, Beomseok Nam and Young-Ri Choi. CAVA: Exploring Memory Locality for Big Data Analytics in Virtualized Clusters

12:00-12:30  
**Session 3B:** Runtime Optimization Techniques (Chair - Sameer Shende, University of Oregon, USA)

12:30-14:00  
Seonmyeong Bak, Harishita Menon, Sam White, Matthias Diener and Laxmikant Kale. Multi-level Load Balancing with an Integrated Runtime Approach

14:00-14:30  

14:30-15:00  
Pedro Ramíñahas, Shady Issa and Davide Roman. Enhancing Efficiency of Hybrid Transactional Memory via Dynamic Partitioning Networks

15:00-15:30  
**Session 3C:** Storage Support for Data Analytics (Chair - Hong Jiang, University of Texas, Arlington, USA)

15:30-16:00  
Jiwen Wu, Can Li, and John Wang. One Size Does Not Fit All: The Case for Chunking Configuration in Backport Deduplication

16:00-16:30  
**Session 4A:** Cloud and Data Center Storage (Chair - Osamu Tatebe, University of Tsukuba, Japan)

16:30-17:00  
Yuhan Peng and Peter Varman. bQueue: A Coarse-Grained Bucket QoS Scheduler

17:00-17:30  

17:30-18:00  

18:00-19:00  
**Session 4B:** Performance Evaluation (Chair - Chase Wu, New Jersey Institute of Technology, USA)

19:00-20:00  

20:00-21:00  
Alesandra Kuzmanovska, Hans van Den Bogert, Rudolf Mak and Dick Epeema. Achieving Performance Balance among Spark Frameworks with Two-Level Schedulers

21:00-22:00  
Subarna Chatterjee and Christine Morin. Experimental Study on the Performance of Scalable and Resource Utilization among Data-parallel Clusters

22:00-23:00  
**Session 4C:** Cloud Environment (Chair - Ashok Srinivasan, Florida State University, USA)

23:00-00:00  

00:00-01:00  
Saurabh Prabhuwarkar, Marcel Neumann and Felix Wolf. Efficient Fault Tolerance through Dynamic Node Replacement

01:00-02:00  
Daniel Bauer, Daniel Seybold, Frank Griesinger, Hynek Masata and Tomáš Domaschka. A Provider-agnostic Approach to Multi-cloud Orchestration using a Constraint Language

02:00-03:00  
**Session 5A:** Storage Support and PhD Student Forum Poster Presentations

03:00-04:00  
**Session 5B:** Datacenters and Cloud (Chair - Shantou Jha, Rutgers University, USA)

04:00-05:00  
**Session 5C:** Applications I (Chair - Yong Chen, Texas Tech University, USA)

05:00-06:00  
Nicolae Vladimir Bozdog, Marc X. Makkes, Aart Van Halteren and Henry Rat. RideMatcher: Peer-to-peer Matching of Passengers for Efficient Ridesharing
### Thursday, May 3rd

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:15-08:45</td>
<td>Session 6: CCGrid Updates and ICFEC Opening</td>
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<td>08:45-09:05</td>
<td>Session 7: Keynote Talk, jointly with CCGrid and ICFEC (Ken Birman, Carnegie Mellon University, USA), Chair - Haiyang Shen, Univ. of Virginia, USA</td>
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<tr>
<td>09:05-10:15</td>
<td>Coffee Break</td>
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<tr>
<td>10:15-12:15</td>
<td>Session 8: Best Paper Finalists Session (Chair - Dhableswar K (DK) Panda, The Ohio State University, USA)</td>
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<tr>
<td>10:15-10:45</td>
<td>Benjamin Welton and Barton Miller. Exposing Hidden Performance Opportunities in High Performance GPU Applications</td>
</tr>
<tr>
<td>10:45-11:15</td>
<td>Myeonggyun Han, Seongdae Yu and Woongki Baek. Secure and Dynamic Core and Cache Partitioning for Safe and Efficient Server Consolidation</td>
</tr>
<tr>
<td>11:15-11:45</td>
<td>Ying-Feng Hsu, Kazuhiro Matsuda and Morito Matsuoka. Self-Aware Workload Forecasting in Data Center Power Prediction</td>
</tr>
<tr>
<td>11:45-12:15</td>
<td>Alexey Ilyushkin and Dick Epena. The Impact of Task Runtime Estimate Accuracy on Scheduling Workloads of Workflows</td>
</tr>
<tr>
<td>12:15-13:15</td>
<td>Lunch Break</td>
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<tr>
<td>13:15-14:00</td>
<td>Session 9: Distinguished Plenary Talk (Gerd Buettnier, Airbus, France), Chair - Dhableswar K (DK) Panda, The Ohio State University, USA</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Session 10: Distinguished Plenary Talk (Frederica Darena, Airforce Research Lab, USA), Chair - Tarek El-Ghazawi, George Washington University, USA</td>
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<td>14:15-15:30</td>
<td>Coffee Break</td>
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<td>14:15-15:30</td>
<td>Session 11: Poster Session with Coffe Break</td>
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<tr>
<td>14:45-14:45</td>
<td>Pascale Minet, Eric Renault, Ines Khoufi and Selma Boumerdassdi. Data Analysis of a Google Data Center</td>
</tr>
<tr>
<td>14:45-15:35</td>
<td>Dongfang Zhao. Davram: Distributed Virtual Memory in the User Space</td>
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<tr>
<td>14:45-14:50</td>
<td>Shantenu Jha and Matteo Turiulli. Designing Workflow Systems Using Building Blocks</td>
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<tr>
<td>14:50-15:30</td>
<td>Jameela Al-Jaroodi and Nader Mohamed. Distributed Cloud Cache</td>
</tr>
<tr>
<td>14:45-15:45</td>
<td>Anna Giannakou, Louis Rilling, Christine Morin and Jean Louis Pazz. SAIDS: A Self-Adaptable Intrusion Detection System for IaaS Clouds</td>
</tr>
<tr>
<td>14:45-15:45</td>
<td>Lucas Leandro Nesi, Mauricio Aronne Pillic, Marcos Dias de Assunção and Guilherme Piegas Koslovski. GPU-Accelerated Algorithms for Allocating Virtual Infrastructure in Cloud Data Centers</td>
</tr>
<tr>
<td>14:45-15:45</td>
<td>Andrea Vlad Postoaca, Florin Pog and Radu Prodan. h-Fair: Asymptotic scheduling of heavy workloads in heterogeneous datacenters</td>
</tr>
<tr>
<td>14:45-15:45</td>
<td>Nnamdi Ekwe-Ekie and Adam Barker. Location, Location, Location: Exploring Amazon EC2 Spot Instance Pricing Across Geographical Regions</td>
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<td>14:45-15:45</td>
<td>Yufang Min, Yaonan Zhang, Jiuyuan Huo, Guohui Zhao, Keting Feng and Jianfeng Kang. High-cold environment joint Observation and Research cloud of China</td>
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<tr>
<td>14:45-15:45</td>
<td>Ryan Luley and Qinru Qiu. Optimizing Data Transfers for Improved Performance on Shared GPUs Using Unification Learning</td>
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<tr>
<td>14:45-15:45</td>
<td>Sietsie Au, Alexandru Uta, Alexey Ilyushkin and Alexandru Josup. An Elasticity Study of Distributed Graph Processing</td>
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<tr>
<td>14:45-15:45</td>
<td>Danielle Turvill, Lee Barnby and Ashiq Anjum. A Conceptual Framework for use of Graph Representation within High Energy Physics Analysis</td>
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<td>14:45-15:45</td>
<td>Luke Bertot, Stéphane Genaud and Julien Gossa. Improving Cloud Simulation using the Monte-Carlo method</td>
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<td>14:45-15:45</td>
<td>Yi Zhou, Shubhiki Tanjea, Mohammed Alghamdi and Xiao Qin. Improving Energy Efficiency of Database Clusters through Prefetching and Caching</td>
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<tr>
<td>15:30-17:00</td>
<td>Session 12: Panel (Moderator - David Mountain, Department of Defense)</td>
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<tr>
<td>18:00-22:00</td>
<td>Boat Cruise and Banquet (Buses leave for the Pier around 17:15 pm, more details will be provided later.)</td>
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### Friday, May 4th

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<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30-09:00</td>
<td>Session 13: CCGrid ’19 Overview and Best Paper Award</td>
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<tr>
<td>09:00-10:00</td>
<td>Session 14: Keynote Talk (Fred Chong, University of Chicago, USA), Chair- Dhableswar K (DK) Panda, The Ohio State University, USA</td>
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<tr>
<td>10:00-10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30-12:00</td>
<td>Session 15A: Network and Memory (Chair - Ron Brightwell, Sandia National Laboratory, USA)</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>Md Atiqul Molah, Peyman Fazian, Md Shafayat Rahman, Xin Yuan, Scott Pakin and Michael Lang. A Comparative Study of Topology Design Approaches for HPC Interconnects</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Srinivasan Chandrasekharan and Chris Gniady. QAMEM: Query Aware Memory Energy Management</td>
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<td>12:00-13:00</td>
<td>Lunch Break</td>
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<tr>
<td>13:00-14:30</td>
<td>Session 15B: Applications II (Chair - Emmanuel Jeannot, INRIA, France)</td>
</tr>
<tr>
<td>13:00-14:00</td>
<td>Huaxin Wang, Jianhui Li, Zhihong Shen and Yuanchun Zhou. Approximations and Bounds for (n, k) Fork-Join Queues: A Linear Transformation Approach</td>
</tr>
<tr>
<td>13:00-14:00</td>
<td>Wenqi Liu, Hongxiang Li and Bin Xie. Real-time Graph Partition and Embedding of Large Network</td>
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<td>13:00-14:30</td>
<td>Vito Giovanni Castellana and Marco Minutoli. SHAD: the Scalable High-performance Algorithms and Data-structures Library</td>
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<td>13:00-15:00</td>
<td>Session 15C: File Systems and Storage (Chair - Alfredo Cuzzocrea, University of Trieste, Italy)</td>
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<tr>
<td>13:00-14:30</td>
<td>Pierre Matri, Maria S. Perez, Alexandru Costan and Gabriel Antoniu. TyjFS: Increasing Small Files Access Performance with Dynamic Metadata Replication</td>
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<tr>
<td>13:00-14:30</td>
<td>Gil Vernik, Michael Factor, Elliot K Kolodner, Pietro Michiardi, Efi Ofier and Francesco Pace. Stocator: Providing High Performance and Fault Tolerance for Apache Spark over Object Storage</td>
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<tr>
<td>13:00-14:30</td>
<td>Chuan Lin, Qiang Cao, Jianzhong Huang, Xiaoqian Li and Changsheng Xie. HPDV: A Highly Parallel Deduplication Cluster for Virtual Machine Images</td>
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<tr>
<td>13:00-14:30</td>
<td>Decentralized Admission Control for High-Throughput Key-Value Data Stores</td>
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<td>13:00-15:00</td>
<td>Performance Modeling (Chair - Lauren Smith, Department of Defense, USA)</td>
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