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IPDPS 2017 PhD Forum
Research Projects Selected for Poster Presentation

#	Participant	Title
1	Shubbhi Taneja	Improving Thermal Efficiency of Hadoop Clusters
2	Sajad Khorsandroo	Live Migration of Overlay Software Defined Networks in Virtual Data Centers
3	Tao Gao.	Mimir: Memory-Efficient and Scalable MapReduce for Large Supercomputing Systems
4	Paul Metzger	Plastic Algorithmic Skeletons
5	Wei Xie	Malloc-check: A Malloc Library for Semi-Transparent Checkpoint-Restart
6	Ahana Roy Choudhury	Two-Level Scheduling of Analytic Queries
7	Md Muhib Khan	Characterization and Optimization of Spark Shuffling Pipeline
8	Danial Aghajarian	A GPU-based Spatial Join Framework for Big Polygonal Data Processing
9	Yuechao Pan.	Multi-GPU graph analytics with Gunrock
10	Sergio Rivas-Gomez	Extending the MPI One-Sided Communication Model to Storage
11	Laleh Ghalami	A Parallel Approximation Algorithm for Scheduling Parallel Identical Machines
12	Tayebeh Bahreini	Efficient Placement of Multi-Component Services in Edge Computing Systems
13	Moustafa Abdelbaky	Distributed Software-Defined Environments Using Dynamic Infrastructure Service Composition
14	Aradhya Biswas	Power and Energy Aware Distributed Systems
15	Pochou Su	A framework for a fast and robust main memory system performance prediction model
16	Daniel Dauwe	Resource Management for Extreme Scale High Performance Computing Systems in the Presence of Failures
17	Michael McDermott	Extending R-Tree to a Distributed GPGPU Framework
18	Priyanka Ghosh	Resource Efficient Distributed Implementation For Assembling Large Genomes At Scale
19	Ihsan Ali	Energy Efficient and Delay Sensitive Communication using Genetic Algorithms in Wireless Sensor Networks
20	Athena Elafrou	Performance Analysis and Optimization of Sparse Matrix-Vector Multiplication
21	Neil Butcher	Performance Evaluation of Real Applications on Modern Hardware
22	Zahra Khatami	Applying Machine Learning Techniques on HPX Parallel Algorithms
23	Manuel Alcantara	Faut-Tolerant Robot Gathering Problems on Graphs with arbitrary waking times
24	Dhara Shah	Effective data collection and dense subgraph mining on social networks
25	Yue Zhu	Direct-FUSE: A User-level File System With Multiple Backends

26	Matthew Dosanjh	Improving Communication Library Performance for Modern Architectures
27	Salvatore Di Girolamo	Transparent Caching for RMA Systems
28	Jiawen Liu	Comprehensive Comparison of CPUs, GPUs and Intel Xeon Phi: Performance, Energy, Efficiency, Productivity and Cost
29	Maciej Besta	SlimSell: A Vectorized Graph Representation for Breadth-First Search
30	Aditi Patil	Visualization of Data Layout and Access of Parallel Program for Productive Performance Analysis and Tuning
31	Sriram Srinivasan	A Graph Sparsification Based Approach for Updating Large Dynamic Networks
32	Anthony Kougkas	Athena: An Execution Engine for Workflow-Aware Storage Systems
33	Dmitry Duplyakin	Applying Active Learning to Adaptive Mesh Refinement Simulations
34	Neha Gholkar	Selective Data Placement on MCDRAM
35	Jonas Posner	A generic reusable Java framework for fault-tolerant parallelization with the task pool pattern
36	Sridutt Bhalachandra	An Adaptive Core-specific Runtime for Energy Efficiency
37	Hyungro Lee	Implementing Software Defined Sub Systems with DevOps Tools and Template-based Provisioning
38	Praveen Kumar Sharma	Communication Profiling of Parallel Applications for Energy and Network Traffic Efficiency
39	Iulian Brumar	ATM: Approximate Task Memoization in the Runtime System
40	Dylan Machovec	Preemptive Resource Management for Dynamically Arriving Tasks in an Oversubscribed Heterogeneous Computing System
41	Dingwen Tao	Towards Efficient Error-controlled Lossy Compression for Scientific Data
42	Jiayi Huang	Fly-Over: A Light-Weight Distributed Power-Gating Mechanism for Energy-Efficient Networks-on-Chip
43	Tejaswini Ananthanarayana	Power Analysis of HLS-Designed Customized Instruction Set Architectures