Research Projects Selected for Poster Presentation

1. *Optimizing Resource Management for Machine Learning Workloads in High-Performance Clusters*, Di Zhang and Dong Dai
2. *Scalable Algorithm Design and Performance Analysis for Graph Motifs Discovery,* Md Abdul Motaleb Faysal
3. *Efficient Large Dynamic Graph Analysis on Emerging Storage Technology,* Abdullah Al Raqibul Islam and Dong Dai
4. *A Framework for Graph Machine Learning on Heterogeneous Architecture,* Yi-Chien Lin
5. *Software and Hardware codesign for High Performance Graph Neural Network Inference*, Bingyi Zhang
6. *Efficient and scalable graph-theoretic approach for hybrid scaffolding of genomes,* Oieswarya Bhowmik, Tazin Rahman, Ananth Kalyanaraman, and Mahantesh Halappanavar
7. *AxoNN: A Highly Scalable Framework for Parallel Deep Learning,* Siddharth Singh and Abhinav Bhatele
8. *Predicting isolated performance from multicore execution using Machine Learning,* Manel Lurbe, Salvador Petit, and Julio Sahuquillo
9. *Generating Number Theoretic Transforms for Multi-Word Integer Data Types on GPU,* Naifeng Zhang and Franz Franchetti
10. *Arachne: An Open-Source Framework for Interactive Massive-Scale Graph Analytics,* Oliver Alvarado Rodriguez
11. *High-Performance Community Detection for FinTech Data Using Arachne,* Fuhuan Li
12. *Autotuning Energy-Delay Product using Graph Neural Networks,* Akash Dutta, Jee Choi, and Ali Jannesari
13. *Optimized Collective FFTs,* Evelyn Namugwanya
14. *Distributed On-Demand Deployment for Transparent Access to 5G Edge Computing Services,* Josef Hammer and Hermann Hellwagner
15. *High-Performance Serverless for HPC and Clouds,* Marcin Copik
16. *Exploring Value Compression Methods for the SpMV Kernel,* Dimitrios Galanopoulos