PDP 2012, Special Session on GPU Computing and Hybrid Computing

The Chairs thank Authors and PC Members of our Special Session. We have received 32 papers and 102 reviews have been written by 28 PC Members from 9 countries. Finally, 11 papers have been accepted (acceptance rate: 34%).

List of accepted papers

Steffen Frey, Guido Reina and Thomas Ertl
SIMT Microscheduling: Reducing Thread Stalling in Divergent Iterative Algorithms

Mourad Gouicem, Pierre Fortin and Stef Graillat
Towards solving the Table Maker Dilemma on GPU

Claudio Silvestri and Salvatore Orlando
gpuDCI: Exploiting GPUs in Frequent Itemset Mining

Filippo Spiga and Ivan Girotto
phiGEMM: a CPU-GPU library for porting Quantum ESPRESSO on hybrid systems

David Dilch and Eduard Mehofer
Optimization Techniques and Performance Analyses of two Life Science Algorithms for Novel GPU Architectures

Eugenio Rustico, Giuseppe Bilotta, Alexis Hérault, Ciro Del Negro and Giovanni Gallo
Smoothed Particle Hydrodynamics simulations on multi-GPU

Abdelamine Boukedjar, Mohamed Lalami and Didier El Baz
Parallel Branch and Bound on a CPU-GPU System

Wang Wei
Parallel Time-space Processing Model based Fast N-body Simulation on GPUs

Aleksandar Ilic and Leonel Sousa
On Realistic Divisible Load Scheduling in Highly Heterogeneous Distributed Systems

Ferdinando Alessi, Annalisa Massini and Roberto Basili
Accelerating the Production of Synthetic Seismograms by a Multicore Processor Cluster with Multiple GPUs

Davor Davidovic and Enrique Quintana-Ortí
Applying OOC Techniques in the Reduction to Condensed Form for Very Large Symmetric Eigenproblems on GPUs