
ACCEPTED PAPERS:

D. Calvert, J. Guan, University of Guelph
"Distributed Artificial Neural Network Architectures"

S.A. Moshen Karimian, A.G. Straatman, The University of Western Ontario
"Implementation of a 3D, unstructured, finite volume code on SHARCNET"

G. Pinheiro, I.S. Kotsireas, Wilfrid Laurier University
"A Meta-Software System for the Discovery of Hadamard Matrices"

R.K. Bawa, S. Natesan, Punjabi University, IIT, India
"Quintic Spline Based Computational Scheme for Singularly Perturbed Convection-Diffusion Problems"

Y. Shulin, S. Weidong, Institute of Appl. Phys. & Comput. Math, Beijing
"The Study and Implementation of the Multigrid Algorithm for the 3-D Transport Difference Equation"

F.A. Chisthie, S.R. Valluri, K.M. Rao, D. Sikorski, T. Williams, The University of Western Ontario
"The Analysis of Large Order Bessel Functions in Gravitational Wave Signals from Pulsars"

L. Nelson, E.P. Dubeau, Bishops University
"The Effects of Stellar Winds on the Envelope Masses of Cooling Low-Mass Dwarfs"

M.Wachowiak, T. Peters, Robarts Institute, The University of Western Ontario
"High Performance Derivative-free Optimization Applied to Biomedical Image Registration"

T.R.C. Santos, A.A. Frohlich, University St. Catarina, Brazil
"A customizable component for low-level communication software"

B. Huang, M. Bauer, M. Katchabaw, The University of Western Ontario
"Hpcbench -- A Linux-Based Network Benchmark for High Performance Networks"

S. Musalappa, S. Sundaram, Y. Chu, Mississippi State University
"A Replacement Policy to Save Energy for Data Cache"

S. Lou, A.A. Farrag, Dalhousie University
"Applying Fault-Tolerant Solutions of Circulant Graphs to Meshes and Hypercubes"

R.V. Fleisig, A.D. Spence, McMaster University
"B-rep Based Parallel Machining Simulation"

O.C. Cordeiro, D.S. Peranconi, L.C.V. Real, V.R. Sinos, University Brazil
"Exploiting Multithreaded Programming on Cluster Architectures"

R. Eccles, B. Nonnecke, D. Stacey, University of Guelph
"Exploring Parallel Programming Knowledge in the Novice"

E. Sykes, A. Mirkovic, Sheridan Inst. Of Tech. and Adv. Learning, Oakville
"A Fully Parallel and Scalable Implementation of a Hopfield Neural Network on the SHARCnet Supercomputer"

G. Liu, H. L. Schmider, K. E. Edgecombe, HPCVL, Kingston
"The HPCVL Working Template: A Tool for High-Performance Programming"

J. Yang, S. D. Goodwin, University of Windsor
"High Performance Constraint Satisfaction Problem Solving: State-recomputation versus State-copying"

M.A.R. Dantas, A.R. Pinto, University St. Catarina, Brazil
"A Load Balancing Approach Based on a Genetic Machine Learning Algorithm"

A. C. Sodan, University of Windsor
"Message-Passing and Shared-Data Programming Models -- Wish vs. Reality"

P. Thulasiraman, R.K. Thulasiram, M. Rahman, University of Manitoba
"An O(mn^2) Asynchronous Multithreaded Maximum Flow Algorithm"

Y. Feng, Y. Zhang, Northwestern Polytechnical University, China
"Online Virtual Disk Migration with Performance Guarantees in Shared Storage Environment"

R.P. Ishii, R.F. de Mello, L.J. Senger, M.J. Santana, R.H.C. Santana, Brazil
"Scheduling Based on the Impact over Process Communication of Parallel Applications"

R. Eccles, D. Stacey, University of Guelph
"Software Engineering Issues for Small-Scale Parallelism"

R. Kent, A. Aggarwal, B. Gillani, University of Windsor
"Topology Reconfiguration Mechanism for Traffic Engineering in WDM Optical Network"

G. Campolieti, R. Makarov, Wilfrid Laurier University
"Parallel Lattice Implementation for Option Pricing under Mixed State-Dependent Volatility Models"

K. Huang, R. K. Thulasiram, University of Manitoba
"Parallel Algorithm for Pricing American Asian Options with Multi-Dimensional Assets"

R. Kent, A. Aggarwal, University of Windsor
"An Adaptive Generalized Scheduler for Grid Applications"

A.J. Stell, R.O. Sinnott, J.P. Watt, University of Glasgow, UK
"Comparison of Advanced Authorisation Infrastructures for Grid Computing"

G. Mateescu, J-C. Cote, NRC, Ottawa
"Computational Science on the Grid: from testbeds to production"

R. Kent, M. Aggarwal, A. Ngom, University of Windsor
"Genetic Algorithm Based Scheduler for Computational Grids"

L.I. Lumb, K.D. Aldridge, Platform Computing, York University
"Grid-Enabling the Global Geodynamics Project: The Introduction of an XML-Based Data Model"

M.A.R. Dantas, A.M. Pernas, University St. Catarina, Brazil
"Using Ontology for Description of Grid Resources"

J. Imada, P. Chapman, S. M. Rothstein, Brock University
"Recognizing Patterns in High-Dimensional Data: Automated Histogram Filtering for Protein Structure Elucidation"

T. Almas, Z. Tesfaye, I. D. Donn, Johns Hopkins University
"Simulation of Electrical Conduction in Cardiac Tissue on High Performance Computers"

H. De Sterck, R. Markel, R. Knight, University of Waterloo, University of Colorado
"A Lightweight, Scalable Grid Computing Framework for Parallel Bioinformatics Applications"

H-L. Chan, A. D. Spence, M. P. Sklad, McMaster University
"Parallel Computing for Sheet Metal Strain Analysis"

R. Mahapatra, R. Melnik, Wilfrid Laurier University
“Computational modeling of coupled dynamic phase transformations in 3D shape memory alloys"

M. S. Wartak, P. Weetman, Wilfrid Laurier University
"Advanced modeling of quantum well semiconductor lasers based on Wigner function approach"

E. Kadantsev, M.J. Scott, Queens University
"Parallel implementation of Density Functional Theory within the real space pseudopotential approach"

G. Brunet, Environment Canada
"One Century of Numerical Weather Prediction"

A.T. Lawniczak, A. Gerisch, K.P. Maxie and B. Di Stefano, “Netzwerk: Migration of a Packet-Switching Network Simulation Environment from MS Windows PC to Linux PC and to HPC”.