

PROGRAM OF PPAM 2007

SUNDAY, SEPTEMBER 9
10:00 - 12:00 Registration
12:00 - 15:00 Tutorials
16:00 - 19:00 Tutorials
19:30 Welcome Reception

MONDAY, SEPTEMBER 10
8:40 Opening
9:00 - 10:20 Invited talks
10:20 - 10:50 Coffee break
10:50 - 11:30 Invited talk
11:35 - 12:50 Contributed papers
Track A: Minisymp. Novel Data Formats
Track B: GAMW07
Track C: WLPP'07
Track D: HPC for Eng. Applications
Track E: Evolutionary computing
Track F: Applications of distr. computing
12:50 - 14:30 Poster Session 1 + Lunch
14:30 - 15:50 Invited talks (In parallel)
15:50 - 16:10 Coffee break
16:10 - 18:15 Contributed papers
Track A: Minisymp. Novel Data Formats
Track B: MAMGCE
Track C: Environments for Distr. Computing
Track D: HPC for Eng. Applications
Track E: Evolutionary computing
Track F: Simulations with Particles
18:30 Traveling to Malbork Medieval Castle

TUESDAY, SEPTEMBER 11
8:30 - 9:20 Contributed papers
Track A: Applications of distr. computing
Track B: MAMGCE
Track C: Environments for Distr. Computing
Track D: HPC for Eng. Applications
Track E: Num. alg. and par. numerics
Track F: Evolutionary computing
9:20 - 9:50 Coffee break

9:50 - 12:20 Contributed papers
Track A: LaSCoG'07
Track B: GAMW07
Track C: WLPP'07
Track D: SPC'07
Track E: Parallel sparse matrix comp.
Track F: Parallel Bio-Computing
12:20 - 13:00 Invited talk
13:00 - 14:40 Poster Session 2 + Lunch
14:40 - 16:00 Invited talks (In parallel)
16:00 - 16:20 Coffee break
16:20 - 18:00 Contributed papers
Track A: Minisymp. Novel Data Formats
Track B: Applications of distr. computing
Track C: Environments for Distr. Computing
Track D: Minisymposium on Interval Analysis
Track E: Num. alg. and par. numerics
Track F: Seminar on Remote Instrumentation
18:30 Guided tour of Gdansk
20:00 Conference Dinner

WEDNESDAY, SEPTEMBER 12
8:50 - 10:10 Invited talks
10:10 - 10:30 Coffee break
10:30 - 13:00 Contributed papers
Track A: Distr. arch. and mobile computing
Track B: PEPALSS
Track C: Minisymposium on Interval Analysis
Track D: SPC'07
Track E:
10:30 - 11:45 Parallel sparse matrix comp.
11:45 - 13:00 Num. alg. and par. numerics
Track F: Non-numerical algorithms
13:00 - 13:40 Invited talk
13:40 Closing Remarks
13:50 Lunch

PROGRAM OF PPAM 2007

SUNDAY, SEPTEMBER 9	
10:00 - 12:00 Registration	
12:00 - 15:00 Tutorials (in parallel)	
Globus: Fundamental tools for building your Grid	Jennifer Schopf, Argonne National Laboratory and eScience Institute
New Data Structures for the Cell Processor	Fred Gustavson, IBM Thomas J. Watson Research Center Jerzy Wasniewski, Denmark Technical University
16:00 - 19:00 Tutorials (in parallel)	
Intel tools for grid programming	Intel Corporation
Grid Computing with GridWay on Globus Infrastructures: Porting Applications using the DRMAA Standard	GridWay Team
19:30 Welcome Reception in the Academy of Music	

MONDAY, SEPTEMBER 10	
8:40 Opening	
9:00 - 10:20 Invited talks	
Chairperson: B. Szymanski	
An Overview of High Performance Computing and Four Research Areas of Importance	Jack Dongarra, University of Tennessee and ORNL
Title will be announced	Richard Dracott, General Manager HPC Intel Corporation
10:20 - 10:50 Coffee break	
10:50 - 11:30 Invited talk	
Chairperson: Jennifer Schopf	
Opportunities and Challenges in e-Science	Fabrizio Gagliardi, Microsoft Research, USA
11:35 - 12:50 Contributed papers	
Track A: The Second Minisymposium on Novel Data Formats and Algorithms for Dense Linear Algebra Computations	
Chairperson: Fred Gustavson, Jerzy Wasniewski	
Introduction to the Minisymposium with emphasis on Rectangular Full Packed (RFP) Format for Complex Matrices of type Symmetric, Hermitian, and Triangular, Part 1	Fred Gustavson, Jerzy Wasniewski
Introduction to the Minisymposium with emphasis on Rectangular Full Packed (RFP) Format for Complex Matrices of type Symmetric, Hermitian, and Triangular, Part 2	Fred Gustavson, Jerzy Wasniewski
Fast In-place Matrix Transformations of Standard Data Structures to and from New Data Structures	Fred G. Gustavson
Track B: GAMW07	
Chairperson: Norbert Meyer	
Observations on the State of the Art in Scientific Workflows through a Use-Case	Adam Barker, Jano van Hemert
A Light-Weight GridWorkflow Execution Service Enabling Client and Middleware Independence	Erik Elmroth, Francisco Hernandez, Johan Tordsson
The OpenCF: an Open Source Computational Framework based on Web Services technologies	A. Santos, F. Almeida, V. Blanco
Track C: WLPP'07	
Chairperson: Ami Marowka	
DPSKEL: A skeleton based tool for parallel programming	Ignacio Pelaez, Francisco Almeida, Fernando Suarez
Universal Grid Client: Grid Operation Invoker	Tomasz Bartynski, Maciej Malawski, Tomasz Gubala, Marian Bubak
A Container-Iterator Parallel Programming Model	Gerhard Zumbusch

Track D: High Performance Computing for Engineering Applications	
Chairperson: Jacek Rokicki	
Creating a platform for the solution of coupled multi-physics PDEs	Tiago Quintino, Thomas Wuilbaut, Andrea Lani, Herman Deconinck
Scalability analysis for a multigrid linear equations solver	Krzysztof Banas
Graph transformations for modeling parallel hp-adaptive Finite Element Method	M. Paszynski, A. Paszynska
Track E: Evolutionary computing, meta-heuristics and neural networks	
Chairperson: Franciszek Seredynski	
A Cost-benefit-based Adaptation Scheme for Multiteme Algorithms	Wilfried Jakob
An Impeller Shape Optimization using the Differential Ant-Stigmergy Algorithm	P. Korosec, J. Silc, K. Oblak, F. Kosel
Evolutionary Algorithm with Forced Variation in Multi-Dimensional Non-stationary Environment	Dariusz Wawrzyniak, Andrzej Obuchowicz
Track F: Applications of parallel/distributed/grid computing	
Chairperson: Zbigniew Czech	
Parallel algorithm for classical simulation of circuit and one-way quantum computation models	Marek Sawerwain
Balancedness in Binary Sequences with Cryptographic Applications	Candelaria Hernandez Goya, Amparo Fúster-Sabater
A parallel sensor selection technique for identification of distributed parameter systems subject to correlated observations	Przemyslaw Baranowski, Dariusz Uciński
12:50 - 14:30 Poster Session 1 + Lunch	
Chairperson:	
14:30 - 15:50 Invited talks (In parallel)	
Track A:	
Chairperson: Ewa Deelman	
Globus Futures	Jennifer Schopf, Argonne National Laboratory and eScience Institute
Designing job-, resource-, and project-management tools for the Grid ecosystem	Erik Elmroth, Umea University
Track B:	
Chairperson: Jack Dongarra	
Dealing with Uncertainties in Computing: from Probabilistic and Interval Uncertainty to Combination of Different Approaches, with Application to Geoinformatics, Bioinformatics, and Engineering	Vladik Kreinovich, University of Texas at El Paso

The Relevance of New Data Structure Approaches for Dense Linear Algebra in the new Multi-Core / Many Core Environments	Fred G. Gustavson, IBM T.J. Watson Research Center
15:50 - 16:10 Coffee break	
16:10 - 18:15 Contributed papers	
Track A: The Second Minisymposium on Novel Data Formats and Algorithms for Dense Linear Algebra Computations	
Chairperson:	Fred Gustavson, Jerzy Wasniewski
Application of Rectangular Full Packed and Blocked Hybrid Matrix Formats in Semidefinite Programming for Sensor Network Localization	Jacek Blaszczyk, Michal Marks, Ewa Niewiadomska Szynkiewicz
New Data Structures for Matrices and Specialized Inner Kernels: Low overhead for High Performance	Josep R. Herrero
Hardware-Oriented Implementation of Cache Oblivious Matrix Operations Based on Space-Filling Curves	Michael Bader, Robert Franz, Stephan Gunther, Alexander Heinecke
The Implementation of BLAS for Band Matrices	Alfredo Remon, Enrique S. Quintana-Orti, Gregorio Quintana-Orti
Panel Discussion on New Data Structures for Dense Linear Algebra	Fred G. Gustavson, Jerzy Wasniewski
Track B: Models, Algorithms and Methodologies for Grid-Enabled Computing Environments	
Chairperson:	Giuliano Laccetti
Exploring the Behaviour of Fine-Grain Management for Virtual Resource Provisioning	Fernando Rodríguez-Haro, Felix Freitag, Leandro Navarro, Rene Brunner
An Assist implementation of the LShaped method for the Portfolio Management Problem	Adamo Bosco, Roberto Musmanno, Ornella Pisacane
Implementation of effective data management policies in distributed and grid computing environments	Luisa Carracciuolo, Giuliano Laccetti, Marco Lapegna
A PMI-aware extension for the SSH protocol	Giuliano Laccetti, Giovanni Schmid
Distributed resources reservation algorithm for GRID networks	Matviy Il'yashenko
Track C: Environments and Tools for Parallel/Distributed/Grid Computing	
Chairperson:	Bogdan Wiszniewski
Fault tolerant record placement for decentralized SDDS LH	Grzegorz Lukawski, Krzysztof Sapiecha
An Approach to Distributed Fault Injection Experiments	Janusz Sosnowski, Andrzej Tymoczko, Piotr Gawkowski
Managing distributed architecture with extended WS-CDL	Konrad Dusza, Henryk Krawczyk

BC-MPI: Running an MPI Application on Multiple Clusters with BeesyCluster Connectivity	Pawel Czarnul
Systematic Conditioning in HPC	Magdalena Slawinska, Jaroslaw Slawinski, Vaidy Sunderam
Track D: High Performance Computing for Engineering Applications	
Chairperson:	Piotr Doerffer
Acceleration of Preconditioned Krylov Solvers for Bubbly Flow Problems	J.M. Tang, C. Vuik
Scalability and performance analysis of a probabilistic domain decomposition method	Juan A. Acebron, Renato Spigler
Parallel bioinspired algorithms in optimization of structures	Waclaw Kus, Tadeusz Burczynski
Performance of Multi Level Parallel Direct Solver for hp Finite Element Method	M. Paszynski
A Grid-enabled Lattice-Boltzmann-based modelling system	Gerard Dethier, Cyril Briquet, Pierre Marchot, P.A. de Marneffe
Track E: Evolutionary computing, meta-heuristics and neural networks	
Chairperson:	Jure Silc
Tracing SQL attacks via neural networks	Jaroslaw Skaruz, Franciszek Seredynski, Pascal Bouvry
Modular rough neuro-fuzzy systems for classification	Rafal Scherer, Marcin Korytkowski, Robert Nowicki, Leszek Rutkowski
Modular type-2 neuro-fuzzy systems	Janusz Starczewski, Marcin Korytkowski, Robert Nowicki, Rafal Scherer
Evolutionary Viral-type Algorithm for the Inverse Problem for Iterated Function Systems	Barbara Strug, Andrzej Bielecki, Marzena Bielecka
Hybrid Flowshop with Unrelated Machines, Sequence Dependent Setup Time and Availability Constraints: An Enhanced Crossover Operator for a Genetic Algorithm	Victor Yaurima, Larisa Burtseva, Andrei Tchernykh
Track F: Special Session on Simulations with Particles	
Chairperson:	Jaroslaw Rybicki
Method of particles as a universal solver	Witold Dzwiniel
Computer simulations of simple models which reveal mechanisms leading to surprising elastic properties	Krzysztof W. Wojciechowski
Cross-scaling simulations of metals in the plastic regime	Jacek Dzedzic, Jaroslaw Rybicki
Entropy and Chaos in Reversible Lattice Gas Cellular Automaton	Franco Bagnoli

Mechanical and Diffusion Processes in Continuum Media with Microstructure	Jevgenij Czapla
18:30 Traveling to Malbork medieval castle	

TUESDAY, SEPTEMBER 11	
8:30 - 9:20 Contributed papers	
Track A: Applications of parallel/distributed/grid computing	
Chairperson: Vyacheslav Maksimov	
MPI and OpenMP Computations for Nuclear Waste Deposition Models	Ondrej Jakl, Roman Kohut, Jiri Stary
Asynchronous Parallel Molecular Dynamics Simulations	Jaroslaw Mederski, Lukasz Mikulski, Piotr Bala
Track B: Models, Algorithms and Methodologies for Grid-Enabled Computing Environments	
Chairperson: Marco Lapegna	
An integrated ClassAd-Latent Semantic Indexing matchmaking algorithm for Globus Toolkit based computing grids	Raffaele Montella, Giulio Giunta, Angelo Riccio
The GSI plug-in for gSOAP: building cross-grid interoperable secure grid services	Massimo Cafaro, Giovanni Aloisio, Daniele Lezzi, Sandro Fiore, Robert van Engelen
Track C: Environments and Tools for Parallel/Distributed/Grid Computing	
Chairperson: David E. Singh	
REVENTS: Facilitating Event-Driven Distributed HPC Applications	Dawid Kurzyniec, Vaidy Sunderam, Magdalena Slawinska
A Formal Model of Multi-Agent Computations	Maciej Smolka
Track D: High Performance Computing for Engineering Applications	
Chairperson: Piotr Doerffer	
Persistent data structures for fast point location	Michał Wichulski, Jacek Rokicki
3D Global Flow Stability Analysis on Unstructured Grids	Marek Morzynski, Frank Thiele
Track E: Numerical algorithms and parallel numerics	
Chairperson: Robert Numrich	
An Adaptive Interface for the Efficient Computation of the Discrete Sine Transform	Pedro Alonso, Miguel O. Bernabeu, Antonio M. Vidal
Message-passing Two Steps Least Square Algorithms for Simultaneous Equations Models	Jose-Juan Lopez-Espin, Domingo Gimenez Canovas
Track F: Evolutionary computing, meta-heuristics and neural networks	
Chairperson: Wlifried Jakob	
Solving channel borrowing problem with Coevolutionary Genetic Algorithms	Krzysztof Gajc, Franciszek Seredyński
Using Chaotic Mapping as Initialization, Selection and Crossover Operators in Genetic Algorithms for Neural Networks Training	Leong Kuan Yew, S. Kalaiarasi
9:20 - 9:50 Coffee break	

9:50 - 12:20 Contributed papers	
Track A: LaSCoG'07	
Chairperson:	Dana Petcu, Maria Ganzha
Garbage Collection in Object Oriented Condensed Graphs	Sunil John, John P. Morrison
Geovisualisation Service for Grid-based Assessment of Natural Disasters	Peter Slizik, Ladislav Hluchy
CPPC-G: Fault-Tolerant Applications on the Grid	Daniel Diaz, Xoan C. Pardo, Maria J. Martin, Patricia Gonzalez, Gabriel Rodriguez
On Service-oriented Symbolic Computing	Alexandru Carstea, Marc Frincu, Alexander Konovalov, Georgiana Macariu, Dana Petcu
MASIPE: a tool based on mobile agents for monitoring parallel environments	David E. Singh, Alejandro Miguel, Felix Garcia, Jesus Carretero
Web portal to make large-scale scientific computations based on Grid computing and MPI	Assel Zh. Akzhalova, Daniar Y. Aizhulov
Track B: GAMW'07	
Chairperson:	Ewa Deelman
Transparent Access to Grid-Based Compute Utilities	Tino Vazquez, Javier Fontan, Eduardo Huedo, Ruben S. Montero, Ignacio M. Llorente
Service Level Agreement metrics for real-time application on the Grid	Lukasz Skital, Maciej Janusz, Renata Slota, Jecek Kitowski
Using HLA and Grid for Distributed Multiscale Simulations	Katarzyna Rycerz, Marian Bubak, Peter M.A. Sloot
A Large-Scale Semantic Grid Repository	Marian Babik, Ladislav Hluchy
Dynamic Control of Grid Workflows Through Activities Global State Monitoring	M. Tudruj, D. Kopanski, J. Borkowski
A Grid Advance Reservation Framework for Co-Allocation and Co-Reservation across Heterogeneous Local Resource Management Systems	Changtao Qu
Track C: WLPP'07	
Chairperson:	Ami Marowka
Cloth Simulation in the SILC Matrix Computation Framework: A Case Study	Tamito Kajiyama, Akira Nukada, Reiji Suda, Hidehiko Hasegawa, Akira Nishida
Formal Semantics of BSPlib DRMA Programming Style	Julien Tesson, Frederic Loulergue
Computing an Irregularity Strength of Connected Graphs by Parallel Constraint Solving in the Mozart System	Adam Meissner, Magdalena Niwinska, Krzysztof Zwierzynski

SkelJ: Skeletons for Object-Oriented Applications	Joao L. Sobral
Divide-and-Conquer Parallel Programming with Minimally Synchronous Parallel ML	Radia Benhddi, Frederic Loulergue
Optimization Opportunities in Collective Operations: UPC Case Study	Rafik A. Salama, Ahmed Sameh
Track D: SPC'07	
Chairperson:	Maciej Drozdowski
Tightness Results for Malleable Task Scheduling Algorithms	Ulrich M. Schwarz
Parallel irregular computations with dynamic load balancing through global consistent state monitoring	Janusz Borkowski, Marek Tudruj
On-line Partitioning for On-line Scheduling with Resource Conflicts	Piotr Borowiecki
Cost minimisation in unbounded multi-interface networks	Adrian Kosowski, Alfredo Navarra
Grid Scheduling Simulation Environment	D. Klusacek, L. Matyska, H. Rudova
The Greedy Multi-cluster Scheduler: Performance Bounds and Parametric Sensitivity	J. Ngubiri, M. van Vliet
Track E: Combinatorial tools for parallel sparse matrix computations	
Chairperson:	Laura Grigori
Application of Fusion Fission to the Multi-Way Graph Partitioning Problem	Charles-Edmond Bichot
A Combinatorial Tool for GMRES preconditioned by Multiplicative Schwarz	Guy Antoine Atenekeng Kahou, Emmanuel Kamgnia, Bernard Philippe
A Parallel Approximation Algorithm for the Weighted Maximum Matching Problem	Fredrik Manne, Rob Bisseling
A Supernodal Out-of-Core Sparse Gaussian-Elimination Method	Anatoli Uchitel, Sivan Toledo
A Hybrid Two-Dimensional Method for Sparse Matrix Partitioning	Rob H. Bisseling, Tristan van Leeuwen, Umit V. Catalyurek
Preliminary Results on the Factorization of Matrices with a Tree-Structured Sparsity Pattern	Alex Druinsky, Sivan Toledo
Track F: Workshop on Parallel Bio-Computing	
Chairperson:	David Bader
Applying SIMD Approach to Whole Genome Comparison on Commodity Hardware	Arpith Jacob, Marcin Paprzycki, Maria Ganzha, Sugata Sanyal
Parallel DNA Sequence Alignment on the Cell Broadband Engine	Adrianto Wirawan, Kwoh Chee Keong, Bertil Schmidt
A Parallel Classification and Feature Reduction Method for Biomedical Applications	Mario R. Guarracino, Salvatore Cuciniello, Davide Feminiano

High Throughput Comparison of Prokaryotic Genomes	Luciana Carota, Lisa Bartoli, Piero Fariselli, Pier L. Martelli, Ludovica Montanucci, Giorgio Maggi, Rita Casadio
Protein similarity search with subset seeds on a dedicated reconfigurable hardware	Pierre Peterlongo, Laurent Noe, Dominique Lavenier, Gilles Georges, Julien Jacques, Gregory Kucherov, Mathieu Giraud
Parallel Multiprocessor Approaches to the RNA Folding Problem	Etienne Ogoubi, David Pouliot, Marcel Turcotte, Abdelhakim Hafid
12:20 - 13:00 Invited talk	
Chairperson: Peter Arbenz	
Programming models for petascale era	Jarek Nieplocha, Pacific Northwest National Laboratory
13:00 - 14:40 Poster Session 2 + Lunch	
Chairperson:	
14:40 - 16:00 Invited talks (In Parallel)	
Track A:	
Chairperson: Vaidy Sunderam	
Malleability, Migration and Replication for Adaptive Distributed Computing over Dynamic Environments	Boleslaw Szymanski, Rensselaer Polytechnic Institute
Managing Data-Intensive Scientific Workflows in Distributed Environments	Ewa Deelman, University of Southern California
Track B:	
Chairperson: Angel Garcia	
Heterogeneity: A natural consequence of free transistors	Ben Bennett, ClearSpeed Technology
Petascale Computing for Large-Scale Graph Problems	David A. Bader, Georgia Institute of Technology
16:00 - 16:20 Coffee break	
16:20 - 18:00 Contributed papers	
Track A: The Second Minisymposium on Novel Data Formats and Algorithms for Dense Linear Algebra Computations	
Chairperson: Fred Gustavson, Jerzy Wasniewski	
Evaluating Linear Recursive Filters Using Novel Data Formats for Dense Matrices	Przemyslaw Stpiczynski
Parallel Solution of Band Linear Systems in Model Reduction	Alfredo Remon, Enrique S. Quintana-Orti, Gregorio Quintana-Orti
Parallel Tiled QR factorization for multicore architecture	Alfredo Buttari

Level 2 BLAS for Rectangular Full Packed Format	Fred G. Gustavson, Jerzy Wasniewski
Track B: Applications of parallel/distributed/grid computing	
Chairperson: Jerzy Brzeziński	
Parallel Solution of Nonlinear Parabolic Problems on Logically Rectangular Grids	A. Arraras, L. Portero, J.C. Jorge
Efficiency of interactive terrain visualization with a PC-cluster	Dariusz Dalecki, Jacek Lebiecz, Krzysztof Mieloszyk, Bogdan Wiszniewski
A self-scheduling scheme for parallel processing in heterogeneous environment: simulations of the Monte Carlo type	G. Musial, L. Debski, D. Jeziorek-Kniola, K. Golab
Parallel Computing of GRAPES 3D-Variational Data Assimilation System	Xiaoqian Zhu, Weimin Zhang, Junqiang Song
Track C: Environments and Tools for Parallel/Distributed/Grid Computing	
Chairperson: Piotr Bala	
GSSIM - Advanced Framework for Grid Scheduling Simulations and Emulations	Krzysztof Kurowski, Jarek Nabrzyski, Ariel Oleksiak, Jan Weglarz
Empowering Automatic Semantic Annotation in Grid	Michal Laclavik, Marek Ciglan, Martin Seleng, Ladislav Hluchy
Grid services for HSM systems monitoring	Darin Nikolow, Renata Slota, Jacek Kitowski
The Vine Toolkit: A Java framework for developing Grid applications	Michael Russell, Piotr Grabowski, Tomasz Kuczynski, Jarek Nabrzyski
Track D: Minisymposium on Interval Analysis	
Chairperson: Bartłomiej J. Kubica	
Towards Efficient Prediction of Decisions under Interval Uncertainty	Van Nam Huynh, Vladik Kreinovich, Yoshiteru Nakamori, Hung T. Nguyen
Fuzzy solution of interval linear equations	P. Sevastjanov, L. Dymova
Efficient Ray tracing using Interval Analysis	Jorge Flórez, Mateu Sbert, Miguel A. Sainz, Josep Vehi
A Survey of Interval Methods for Solving the Initial Value Problem	Karol Gajda, Malgorzata Jankowska, Andrzej Marciniak, Barbara Szyszka
Track E: Numerical algorithms and parallel numerics	
Chairperson: Rob H. Bisseling	
Dimensional analysis applied to a parallel QR algorithm	Robert W. Numrich
A Block-Based Parallel Adaptive Scheme for Solving the 4D Vlasov Equation	O. Hoenen, E. Violard

Sparse Matrix-Vector Multiplication - Final Solution?	Pavel Tvrdik, Ivan Simecek
Cholesky LLT- Algorithm Implementation in FPGA-based Processor	Oleg Maslennikov, Volodymir Lepekha, Anatolij Sergiyenko, Roman Wyrzykowski
Track F: Seminar on Remote Instrumentation	
Chairperson:	Norbert Meyer
e-VLBI conception in the EXPReS project	T. Charles Yun
First experiences on Virtual Genomics Laboratory	M. Figlerowicz
Approaches for distributed tele-laboratory architectures and experiences with a telecommunication measurement platform	Franco Davoli
Remote Instrumentation: Building an Infrastructure Using the Grid	Thomas Prokosch
18:30 Guided tour of Gdansk	
20:00 Conference Dinner in "Piwnica Rajcow"	

WEDNESDAY, SEPTEMBER 12	
8:50 - 10:10 Invited talks	
Chairperson: Marcin Paprzycki	
Parallel Software Development with Intel Tools	Hans-Christian Hoppe, Intel Corporation
Interoperability of sparse linear system solvers represented as components	Masha Sosonkina, Ames Laboratory and Iowa State University
10:10 - 10:30 Coffee break	
10:30 - 13:00 Contributed papers	
Track A: Parallel/distributed architectures and mobile computing	
Chairperson: Jacek Kitowski	
Performance evolution and power benefits of cluster system utilizing Quad-Core and Dual-Core Intel Xeon processors	Pawel Gepner, David L. Fraser, Michal F. Kowalik
Skip Ring Topology in FAST Failure Detection Service	Jacek Kobusiński, Filip Gorski, Stanislaw Stempin
Inter-Processor Communication Optimization in Dynamically Reconfigurable Embedded Parallel Systems	Eryk Laskowski, Marek Tudruj
On Checkpoint Overhead in Distributed Systems providing Session Guarantees	Arkadiusz Danilecki, Anna Kobusinska, Marek Libuda
Safety of a Session Guarantees Protocol Using Plausible Clocks	Jerzy Brzezinski, Michal Kalewski, Cezary Sobaniec
Analysis of Distributed Packet Forwarding Strategies in Ad Hoc Networks	Marcin Seredynski, Pascal Bouvry, Mieczyslaw A. Klopotek
Track B: Performance Evaluation of Parallel Applications on Large-Scale Systems	
Chairperson: Henryk Krawczyk	
Comparison of Execution Time Decomposition Methods for Performance Evaluation	Jan Kwiatkowski, Marcin Pawlik, Dariusz Konieczny
An Extensible Timing Infrastructure for Adaptive Large-scale Applications	Dylan Stark, Gabrielle Allen, Tom Goodale, Thomas Radke, Erik Schnetter
Performance Evaluation of Basic Linear Algebra Subroutines on a Matrix Co-processor	Ahmed S. Zekri, Stanislav G. Sedukhin
End to End QoS Measurements of TCP Connections	Witold Wysota, Jacek Wytrebowicz
Semantic-oriented approach to performance monitoring of distributed Java applications	Wlodzimierz Funika, Piotr Godowski, Piotr Pegiel
Track C: Minisymposium on Interval Analysis	
Chairperson: Pawel Sevastjanov	
A Reliable Extended Octree Representation of CSG Objects with an Adaptive Subdivision Depth	Eva Dyllong, Cornelius Grimm

Series estimation via boundary corrections with parameters	Boguslaw Bozek, Wieslaw Solak, Zbigniew Szydelko
On checking the monotonicity of parametric interval solution	Iwona Skalna
Interval methods for computing the Pareto-front of a multicriterial problem	Bartlomiej Jacek Kubica, Adam Wozniak
The interval analysis of the human pelvic bone	Piotr Orantek, Antoni John
Algorithm for Evaluation of the Interval Power Function of Unconstrained Arguments	Evgueni Petrov
Track D: SPC'07	
Chairperson:	Jarek Nabrzyski
A New Model of Multi-Installment Divisible Loads Processing in Systems with Limited Memory	M. Drozdowski, M. Lawenda
Scheduling DAGs on Grids with Copying and Migration	Israel Hernandez, Murray Cole
A Multiobjective Evolutionary Approach for Multisite Mapping on Grids	I. DeFalco, A. DellaCioppa, U. Scafuri, E. Tarantino
Scheduling in Multi-Organization Grids: Measuring the Inefficiency of Decentralization	Krzysztof Rządca
Scheduling with precedence constraints: Mixed graph coloring in series-parallel graphs	Hanna Furmanczyk, Adrian Kosowski, Pawel Zylinski
Track E:	
10:30 - 11:45 Combinatorial tools for parallel sparse matrix computations	
Chairperson:	Masha Sosonkina
Heuristics for Matrix Symmetrization Problem	Bora Ucar
A supernode amalgamation algorithm for an efficient block incomplete factorization	Pascal Henon, Pierre Ramet, Jean Roman
The PT-Scotch project: purpose, design, midterm results	Cedric Chevalier, Francois Pellegrini
11:45 - 13:00 Numerical algorithms and parallel numerics	
Chairperson:	Przemyslaw Stpiczynski
Incomplete WZ factorization as an alternative method of preconditioning for solving Markov chains	Beata Bylina, Jaroslaw Bylina
On Optimal Strategies of Russia's Behavior on the International Market for Emissions Permits	Alexey Kadiyev, Vyacheslav Maksimov, Valeriy Rozenberg
Track F: Non-numerical algorithms	
Chairperson:	Jaroslaw Zola
JaCk-SAT: A New Parallel Scheme to Solve the Satisfiability Problem (SAT) based on Join-and-Check	Daniel Singer, Anthony Monnet
Theoretical and Practical Issues of Parallel Simulated Annealing	Agnieszka Debudaj-Grabysz, Zbigniew J. Czech
Parallel Simulated Annealing Algorithm for Graph Coloring Problem	S. Lukasik, Z. Kokosinski, G. Swieton

Parallel scatter search algorithm for the flow shop sequencing problem	Wojciech Bozejko, Mieczyslaw Wodecki
Towards Stream Data Parallel Processing in Spatial Aggregating Index	Marcin Gorawski, Rafal Malczok
The Buffered Work-Pool Approach for Search-Tree Based Optimization Algorithms	Faisal N. Abu-Khzam, Mohammad A. Rizk, Deema A. Abdallah, Nagiza F. Samatova
13:00 - 13:40 Invited talk	
Chairperson:	Hans-Christian Hoppe
Molecular dynamics simulation of the folding thermodynamics of proteins and nucleic acids	Angel F. Garcia, Rensselaer Polytechnic Institute
13:40 Closing Remarks	
13:50 Lunch	