

Euro-Par 2018 – Turin



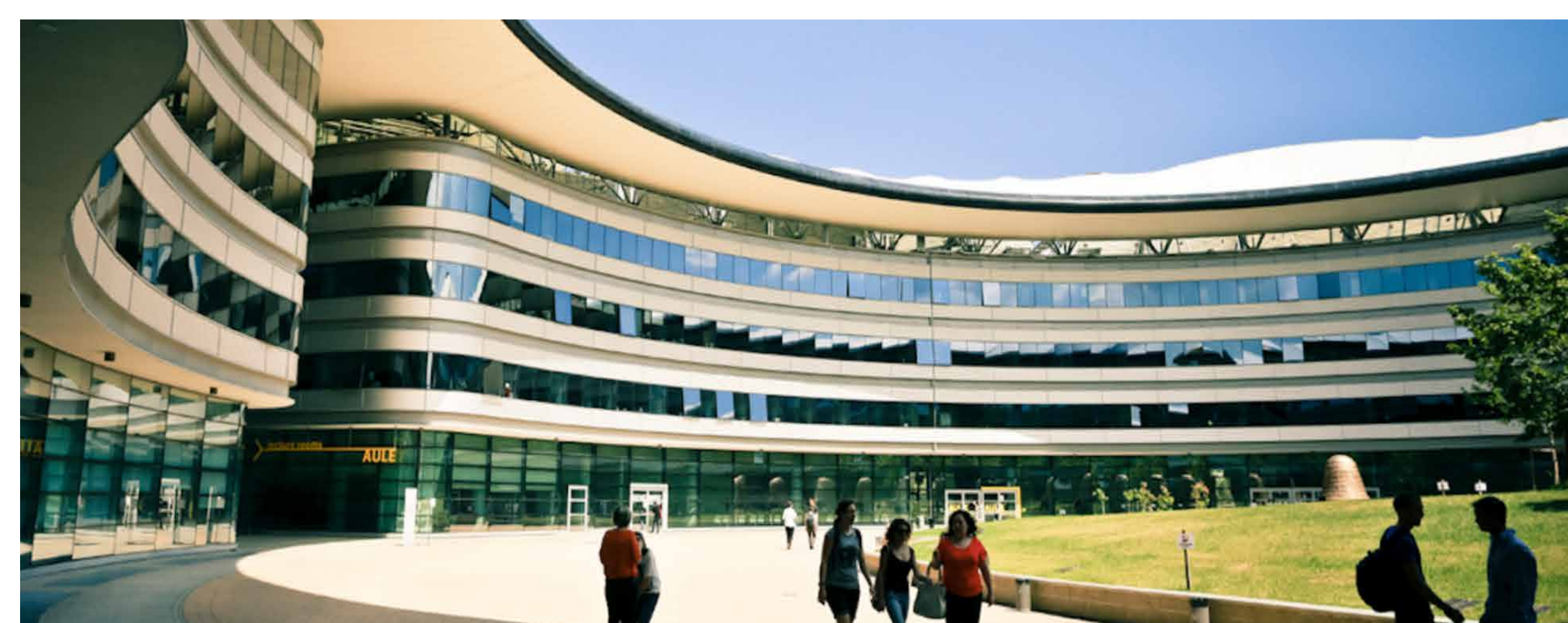
Organisers: Marco Aldinucci, Luca Padovani, Massimo Torquati

Keynotes:

Silvio Micali: *ALGORAND - A Better Distributed Ledger*

David Keyes: *Algorithmic Adaptations to Extreme Scale Computing*

Babak Falsafi: *Datacenters for the Post-Moore Era*



Topics:

- Support Tools and Environments
- Performance and Power Modeling, Prediction and Evaluation
- Scheduling and Load Balancing
- High Performance Architectures and Compilers
- Parallel and Distributed Data Management and Analytics
- Cluster and Cloud Computing
- Distributed Systems and Algorithms
- Parallel and Distributed Programming, Interfaces, and Languages
- Multicore and Manycore Methods and Tools
- Theory and Algorithms for Parallel Computation and Networking
- Parallel Numerical Methods and Applications
- Accelerator Computing for Advanced Applications

Distinguished paper:

Design Principles for Sparse Matrix Multiplication on the GPU (ARTIFACT AWARDED) Carl Yang, Aydın Buluç and John D. Owens

VioLET: A Large-scale Virtual Environment for Internet of Things Shreyas Badiger, Shrey Baheti and Yogesh Simmhan

Resource-Efficient Execution of Conditional Parallel Real-Time Tasks Sanjoy Baruah

Workshops:

Auto-DaSP, CDBP, COLOC, EduPar, F2CDP, FPDAPP, HeteroPa, LSDVE, MedHPC, PDCLifeS, Repara, Resilience

Tutorials:

Enabling your code for vector execution on multi-core architectures

Developing with Model-driven Big Data Analytics-as-a-Service:
the Toreador Approach

Application-driven Fault-Tolerance for High Performance Distributed Computing

Lossy Compression for Scientific Data



Euro-Par 2017 — Santiago de Compostela



Organisers: Francisco F. Rivera, Tomás F. Pena, José C. Cabaleiro, Dora B. Heras

Keynotes:

David Padua: *High Level Abstractions and Automatic Optimization Techniques for the Programming of Irregular Algorithms* | Ian Foster: *Computing Just What You Need: Online Data Analysis and Reduction at Extreme Scales* | Jürgen Döllner: *Software Analytics – Effectively Managing Complex Software Systems*



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- Accelerator Computing

Distinguished paper:

Accelerating the Tucker Decomposition with Compressed Sparse Tensors Shaden Smith and George Karypis

Co-located workshops:

APPT, Auto-DaSP, COLOC, EduPar, F2C-DP, HeteroPar, LSDVE, Resilience, ROME, UCHPC

Tutorials:

CPUs, GPUs, FPGAs: A Tutorial on Heterogeneity and Managing Accelerators with Intel Threading Building Blocks
Programming workflows with PyCOMPSs

Parallel programming contest



Euro-Par 2016 – Grenoble



Photo: pixabay

Organisers: Denis Trystram, Frédéric Desprez, Pierre-François Dutot

Keynotes:

Susan Albers: *Energy-Efficient Algorithms*

Walfredo Cirne: *Improving Cloud effectiveness*

Dror Feitelson: *Resampling with Feedback*



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- Parallel Numerical Methods and Applications
- Accelerator Computing

Distinguished authors:

Dalai Sukkari, Hatem Ltaief and David Keyes

Juan Manuel Martinez Caamano and Philippe Clauss

Ali Charara, Hatem Ltaief and David Keyes

Arnold Rosenberg

Co-located workshops:

COLOC, Euro-EduPar, IWMSE, PELGA, REPPAR, HeteroPar, LSDVE, PADABS, Pbio, Resilience, ROME, UCHPC

Tutorials:

Accelerate your application with OpenACC

An overview of fault-tolerant techniques for HPC

Efficient MPI programming concepts

Experimenting on HPC and large cloud infrastructures using Grid5000 testbed

Green big data using Hadoop

Tuning for data parallelism

Using SimGrid for research in large scale distributed systems



Euro-Par 2015 – Vienna



Photo: pixabay

Organisers: Jesper Larsson Träff, Sascha Hunold, Francesco Versaci

Keynotes:

Michel Raynal (IRISA, University of Rennes): *Concurrent Systems: Hybrid Object Implementations and Abortable Objects*

Mateo Valero (UPC Barcelona): *Runtime Aware Architectures*

Christian Scheideler (University of Paderborn): *Self-stabilizing distributed data structures*

Topics:

- Support Tools and Environments
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- Scheduling and Load Balancing
- Architecture and Compilers
- Parallel and Distributed Data Management
- Grid, Cluster and Cloud Computing
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- Parallel and Distributed Programming, Interfaces and Languages
- Multicore and Manycore Programming
- Theory and Algorithms for Parallel Computation
- Communication, Routing and Networks
- Numerical Methods and Applications
- Accelerator Computing

Distinguished authors:

Ahmad Abdelfattah, Hatem Ltaief, David E. Keyes, Jack J. Dongarra

Leyuan Wang, Sean Baxter, John D. Owens

Enrico Calore, Alessandro Gabbana, Jiri Kraus, Sebastiano Fabio Schifano, Raffaele Tripiccone

Tiziano De Matteis, Salvatore Di Girolamo, Gabriele Mencagli

Co-located workshops:

BigDataCloud, Euro-EDUPAR, HeteroPar, LSDVE, OMHI, PADABS, PELGA, REPPAR, Resilience, ROME, UCHPC, VHPC

Panel:

The Future of Parallel, Distributed and High-Performance Computing, in Europe:

Raffaele Tripiccone (Moderator) (University of Ferrara & INFN)

Piero Altoe (4 Computer Engineering)

Wolfgang Nagel (ZIH & TU Dresden)

Keshav Pingali (University of Texas, Austin)

Michel Raynal (IRISA, University of Rennes)

Euro-Par 2013 – Aachen



Organisers: Felix Wolf, Dieter an Mey, Bernd Mohr, Vera Kleber

Keynotes: Alok Choudhary: *Big Data, Exascale Systems and Knowledge Discovery – The Next Frontier for HPC* | Arndt Bode: *Energy to Solution: A New Mission for Parallel Computing* | Tim Mattson: *Recent Developments in Parallel Programming: The Good, the Bad, and the Ugly*

Topics:

- Support Tools and Environments
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- Scheduling and Load Balancing
- High-Performance Architectures and Compilers
- Parallel and Distributed Data Management
- Grid, Cluster and Cloud Computing
- Peer-to-Peer Computing
- Distributed Systems and Algorithms
- Parallel and Distributed Programming
- Parallel Numerical Algorithms
- Multicore and Manycore Programming
- Theory and Algorithms for Parallel Computing
- High-Performance Networks and Communication
- High-Performance and Scientific Applications
- GPU and Accelerator Computing
- Extreme-Scale Computing

Papers selected for special issue:

Controlling fairness and task granularity in distributed, online, non clairvoyant workflow executions – Rafael Ferreira da Silva, Tristan Glatard, Frédéric Desprez

Compiler multiversioning for automatic task granularity control – Peter Thoman, Herbert Jordan, Thomas Fahringer

Software based contention management for efficient compare and swap operations – Dave Dice, Danny Hendler, Ilya Mirsky

Co-located workshops:

HeteroPar, ROME, Resilience, FedICI, BigData-Cloud, PADABS, PROPER, UCHPC, OMHI, HiBB, MHPC, DIHC, LSDVE

Tutorials:

Tools for High-Productivity Supercomputing
Introduction to OpenACC Programming on GPUs
Advanced OpenMP



Euro-Par 2011 – Bordeaux



Organisers: Emmanuel Jeannot, Raymond Namyst, Jean Roman

Keynotes:

Pete Beckman (Argonne National Laboratory and the University of Chicago): *Facts and Speculations on Exascale: Revolution or Evolution?*

Alessandro Curioni (IBM, Zurich Research Laboratory, Switzerland): *New Scalability frontiers in ab-initio Molecular Dynamics*
Facts and Speculations on Exascale: Revolution or Evolution? | Toni Cortes (Computer Architecture Department (DAC) in the Universitat Politècnica de Catalunya and Barcelona Supercomputing Center, Spain): *Why trouble humans? They do not care!*

Topics:

1. Support Tools and Environments
2. Performance Prediction and Evaluation
3. Scheduling and Load Balancing
4. High-Performance Architecture and Compilers
5. Parallel and Distributed Data Management
6. Grid Cluster and Cloud Computing
7. Peer to Peer Computing
8. Distributed Systems and Algorithms
9. Parallel and Distributed Programming
10. Parallel Numerical Algorithms
11. Multicore and Manycore Programming
12. Theory and Algorithms for Parallel Computation
13. High Performance Network and Communication
14. Mobile and Ubiquitous Computing
15. High Performance and Scientific Applications
16. GPU and Accelerators Computing

Distinguished papers:

Compressing the Incompressible with ISABELA: In-situ Reduction of Spatio-Temporal Data. *Sriram Lakshminarasimhan*; Neil Shah Stephane Ethier; Scott Klasky ; Rob Latham; Robert Ross; Nagiza F. Samatova

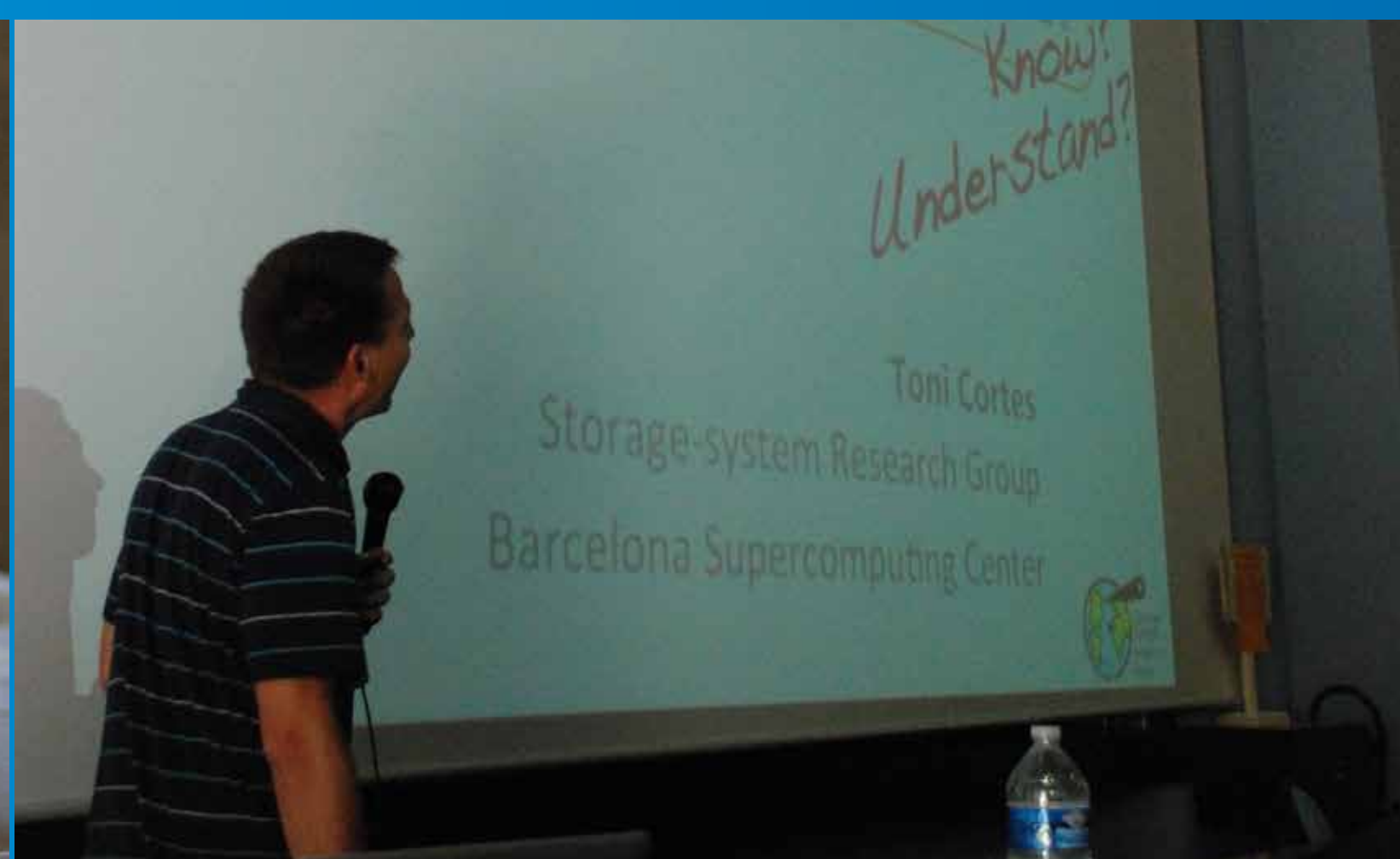
Correlated Set Coordination in Fault Tolerant Message Logging Protocols. *Aurelien Bouteiller*; *Thomas Herault*; George Bosilca; Jack Dongarra

Communication-optimal parallel 2.5D matrix multiplication and LU factorization algorithms; Edgar Solomonik James Demmel



Co-located workshops:

CoreGrid, HPSS, HPCVirt, HeteroPar, MDGS, UCHPC, HPPC, VHPC, Resilience, HiBB, PROPER, CCPI
Lossy Compression for Scientific Data



Euro-Par 2009 – Delft



Photo: pixabay

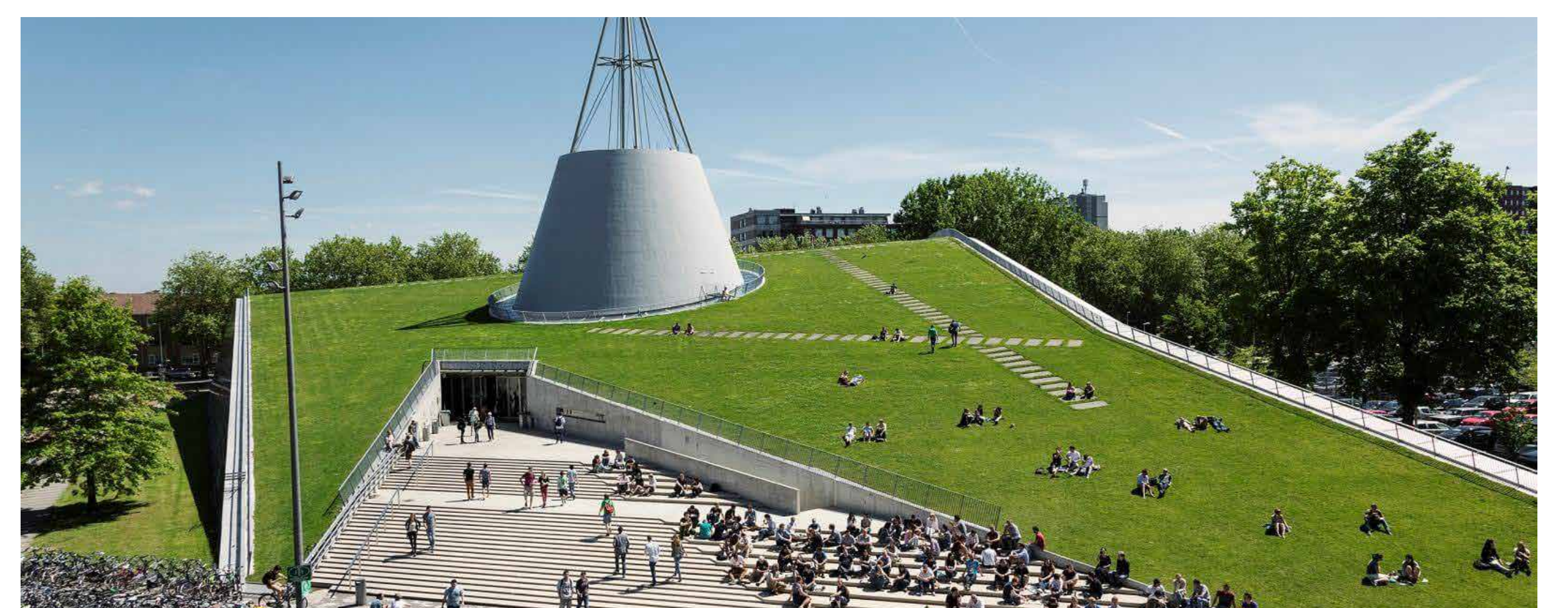
Organisers: Henk Sips, Dick Epema, Hai-Xiang Lin

Keynotes:

Michael Perrone: *Multicore Programming Challenges*

Henri Bal: IBIS: *A Programming System for Real-World Distributed Computing*

Antony Rowstron: *What is in a Namespace?*



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- Environments
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- Distributed Systems and Algorithms
- Parallel and Distributed Programming
- Multicore and Manycore Programming
- Theory and Algorithms for Parallel Computation
- High Performance Networks
- Mobile and Ubiquitous Computing

Distinguished paper:

POGGI: Puzzle-based Online Games on Grid Infrastructures Alexander Iosup

A Least-Resistance Path in Reasoning about Unstructured Overlay Networks

Giorgos Georgiadis, Marina Papatriantafyllou

Wavelet-Based Adaptive Solvers on Multi-core Architectures for the Simulation of Complex Systems Diego Rossinelli,

Michael Bergdorf, Babak Hejazialhosseini,

Petros Koumoutsakos

A Case study of Communication Optimizations in 3D Mesh Interconnects Abhinav Bhatele,

Eric Bohm, Laxmikant V. Kale

Co-located workshops:

CoreGrid, Gecon, UNICORE, HeteroPar, HPPC, PROPER, ROIA, STMC-Grid, VHPC, XtremOS

Euro-Par Award: Paul Feautrier



Euro-Par 2008 – Las Palmas



Organisers: Emilio Luque, Tomàs Margalef, Domingo Benitez
Universitat Autònoma de Barcelona, Caos, Universidad de Las Palmas de Gran Canaria, Siani

Keynotes:

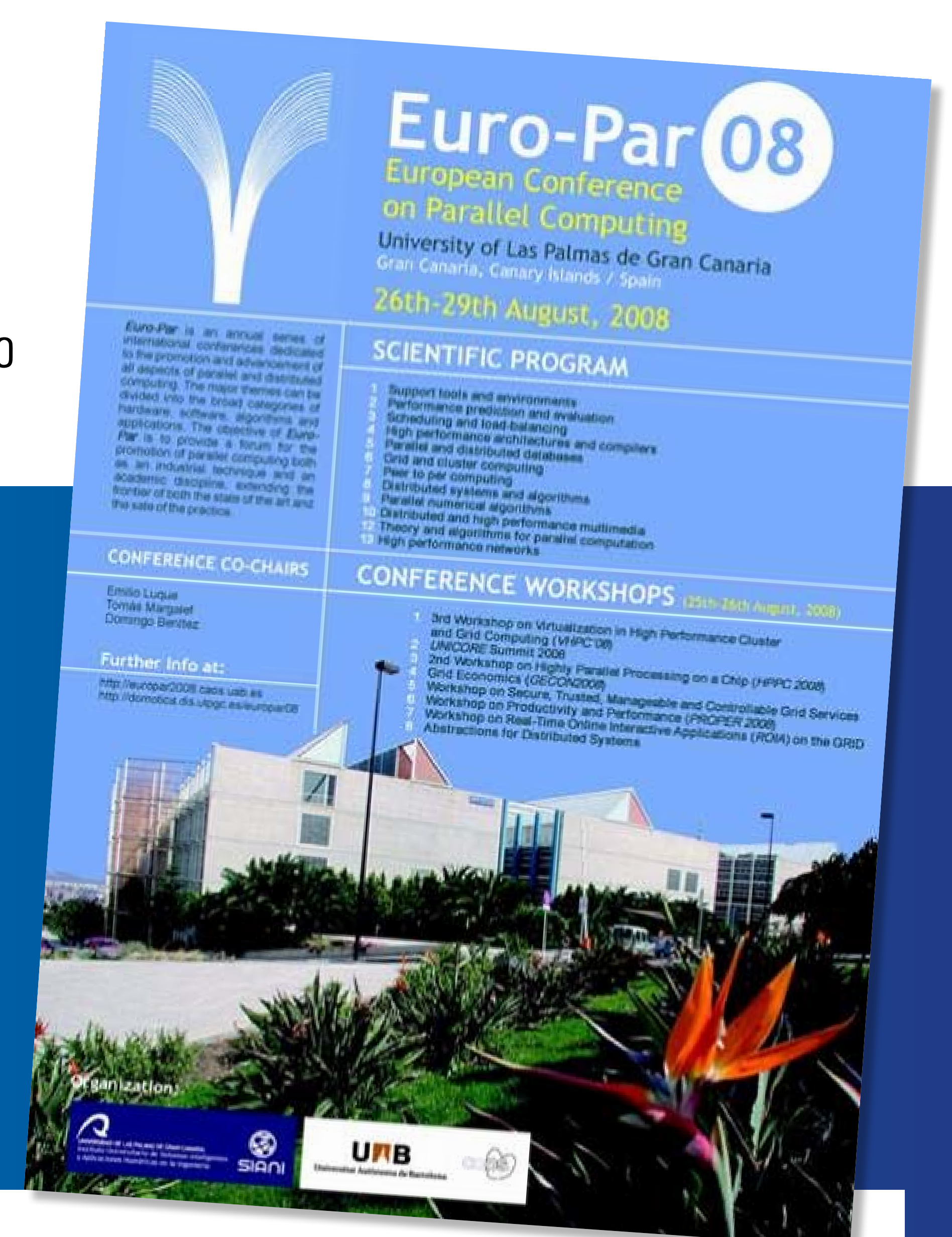
Elastic Parallel Architectures - Antonio González

Keeping up with Growing Machine Sizes: Challenges and Opportunities for Scaling Tools - Martin Schulz

Fault Tolerance for PetaScale Systems: Current Knowledge, Challenges and Opportunities - Franck Cappello

Topics:

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- Grid and Cluster Computing
- Distributed Systems and Algorithms
- Parallel and Distributed Programming
- Parallel Numerical Algorithms
- Distributed and High Performance Multimedia
- Theory and Algorithms for Parallel Computation
- High performance Networks
- Mobile and ubiquitous computing



Workshops:

CoreGRID Symposium 2008

3rd Workshop on Virtualization in High-Performance Cluster and Grid Computing (VHPC'08)

The UNICORE Summit 2008

2nd Workshop on Highly Parallel Processing on a Chip (HPPC 2008)

5th International Workshop on Grid Economics and Business Models (Gecon2008)

Workshop on Secure, Trusted, Manageable and Controllable Grid Services (SGS 08)

Workshop on Productivity and Performance (PROPER 2008)

Real-Time Online Interactive Applications (ROIA) on the GRID (ROIA 2008)

Abstractions for Distributed Systems (DPA 2008)



Euro-Par 2005 – Lisbon



Photo: Pixabay, Peter Kraayvanger

Organisers: José C. Cunha, Pedro D. Medeiros

Keynotes:

José AB Fortes: *On the use of Virtualization and Service Technologies to Enable Grid Computing*

José Moreira: *The Evolution of the Blue Gene/L Supercomputer*

Omer F. Rana: *Agent Based Computational Grids: Research Issues and Challenges*

Raymond Bair: *Science on a Large Scale*



Topics:

- Support Tools and Environments
- Performance Prediction and Evaluation
- Scheduling and Load Balancing
- Compilers for High Performance
- Parallel and Distributed Databases, Data Mining and Knowledge Discovery
- Grid and Cluster Computing: Models, Middleware and Architectures
- Parallel Computer Architecture and ILP
- Distributed Systems and Algorithms
- Parallel Programming Models, Methods and Languages
- Parallel Numerical Algorithm
- Distributed and High-Performance Multimedia
- Theory and Algorithms for Parallel Computation
- Routing and Communication in Interconnection Networks
- Mobile and Ubiquitous Computing
- Peer-to-Peer and Web Computing
- Applications of High-Performance and Grid Computing

Distinguished paper:

Replication predicates for dependent-failure algorithms

Flávio Junqueira, Keith Marzullo

Best papers in Special Issue of Concurrency and Computation Practice and Experience, Vol 19 (17) 2007

Co-located workshop:

Really Large-Scale Grid Architectures (CoreGrid NoE, GridCoord European Initiative on Grid Computing)

Tutorials:

Testing Multi-threaded and distributed Applications (E. Farchi, S. Ur)

Kerrighed, a Single System Image Cluster Operating System (C. Morin, R. Lottiaux)

Creating and Managing Distributed Scientific Workflows (O. F. Rana, joint work with I. Taylor, M. Shields, D.W. Walker)

Euro-Par 2004 – Pisa



Organisers: Marco Danelutto, Marco Vanneschi, Domenico Laforenza

Keynotes:

Dennis Gannon: *Building Grid Applications and Portals: An Approach Based on Components, Web Services and Workflow Tools* | Manuel Hermenegildo: *Some Techniques for Automated, Resource-Aware Distributed and Mobile Computing in a Multi-Paradigm Programming System* | Mateo Valero: *Kilo-instruction Processors* | Murray Cole: *Why structured parallel programming matters*



Topics:

- Support Tools and Environments
- Performance Evaluation
- Scheduling and Load Balancing
- Compilers for High Performance
- Parallel and Distributed Databases, Data mining and knowledge discovery
- Grid and Cluster Computing
- Applications on High Performance Computers
- Parallel Computer architecture and ILP
- Distributed Systems and Algorithms
- Parallel programming: Models, Methods and Languages
- Numerical Algorithms
- High Performance Multimedia
- Theory and Algorithms for Parallel Computation
- Routing and communication in interconnection networks
- Mobile computing
- Integrated problem solving environments
- High performance bioinformatics
- Peer-to-peer and web computing
- Demo session

Distinguished paper:

Adjusting a Program Transformation for Legality - Cédric Bastoul and Paul Feautrier
Overhead Compensation in Performance Profiling - Allen D. Malony and Sameer S. Shende | *A Dynamic MPI-OPENMP Model for Structured Adaptive Mesh Refinement* - Jarmo Rantakokko | *The Impact Of Message-Buffer Alignment on Communication Performance* - Leon Arber and Scott Pakin | *Adapting a Pure Decentralized Peer-to-peer Protocol for Grid Services Invocation* - Domenico Talia And Paolo Trunfio | *Towards a Grid Services Based Framework for the Virtualization, Execution and Composition of MPI Applications* - Evangelos Floros and Yiannis Cotronis | *Aggregating Variables for Asynchronous Iterations* - Yasemin Yalçinkaya and Trond Steihaug

Tutorials:

Open Source Middleware for the Grid:
Distributed Objects and Components in ProActive - Denis Caromel and Romain Quilici
Achieving Usability and Efficiency in Large-Scale Parallel Computing Systems - Fabrizio Petrini and Kei Davis
Grid Resource Management and Scheduling - Ramin Yahyapour

Marco Danelutto
Domenico Laforenza
Marco Vanneschi (Eds.)

LNCS 3149

Euro-Par 2004 Parallel Processing

10th International Euro-Par Conference
Pisa, Italy, August/September 2004
Proceedings



Springer



Euro-Par 2000 – Munich



Photo: Wikivoyage.org

Organisers: Arndt Bode, Thomas Ludwig, Wolfgang Karl, Roland Wismüller

Keynotes:

David Keyes: *Four Horizons for Enhancing the Performance of Parallel Simulations based on Partial Differential Equations*

Gregor von Laszewski: *Grid-based Asynchronous Migration of Execution Context in Java Virtual Machines*

Boris Babayan: *E2K. Technology and Implementation*

Michel Raynal: *Logical Instantaneity and Causal Order: Two “First Class” Communication Modes for Parallel Computing*

Yale Patt: *Despite the Nay-Sayers to the Contrary, Moore’s Law is Alive and Well and Still Providing Opportunities*

Hans-Werner Meuer: *The TOP500 Project of the Universities Mannheim and Tennessee*

Topics:

- Support Tools and Environments
- Performance Evaluation and Prediction
- Scheduling and Load Balancing
- Copilers for High Performance
- Parallel and Distributed Data Bases and Applications
- Complexity Theory and Algorithms
- Applications on High Performance Computers
- Parallel Computer Architecture
- Distributed Systems and Algorithms
- Programming Languages, Models, and Methods
- Numerical Algorithms for Linear and Nonlinear Algebra
- European Projects
- Routing and Communication in Interconnection Networks
- Instruction-Level Parallelism and Processor Architecture
- Object Oriented Architectures , Tools, and Applications
- High Performance Data Mining and Knowledge Discovery
- Architectures and Algorithms for Multimedia Applications
- Cluster Computing
- Meta Computing
- Parallel I/O and Storage technology
- Problem Solving Environments

Distinguished paper: *A Callgraph-Based Search Strategy for Automated Performance Diagnosis* Harold W. Cain, Barton P. Miller, Brian J.N. Wylie

Parallel Multilevel Algorithms for Multi-constraint Graph Partitioning Kirk Schloegel, George Karypis, Vipin Kumar

Developing a Communication Intensive Application on the EARTH Multithreaded Architecture Kevin B. Theobald, Rishi Kumar, Gagan Agrawal, Gerd Heber, Ruppa K. Thulasiram, Guang R. Gao

Compiling Multithreaded Java Bytecode for Distributed Execution Gabriel Antoniu, Luc Bougé, Philip J. Hatcher, Mark MacBeth, Keith McGuigan, Raymond Namyst

Partition Cast - Modelling and Optimizing the Distribution of Large Data Sets in PC Clusters Felix Rauch, Christian Kurmann, Thomas M. Stricker

Co-located workshops:

SCI-Europe 2000, Apart Workshop, EGRID Workshop, Tools and Methods for the Use of Parallel Systems, Workshop on Automated Debugging

Tutorials: High-Performance Numerical Linear Algebra: Fast and Robust Kernels for Scientific Computing | Beyond Vector-Parallel: The Hitachi SR8000 | Parallel and Distributed Computing with Java and CORBA | Current and Future Trends in Processor Architecture | Extreme! Scientific Parallel Computing | Hot Topics in Cluster Computing and the Grid



Euro-Par 1997 – Passau



Photo: https://wikitravel.org/en/File:Passau_Panorama_08420_2.jpg

Organisers: Christian Lengauer, Sergei Gorlatch, Martin Griebel, Ulrike Lechner

Keynotes: Paul Feautrier: *Basis of Parallel Speculative Execution*
Tony Hoare, Jifeng He: *Unifying Theories for Parallel Programming*
Manuel Hermenegildo: *Automatic Parallelization of Irregular and Pointer-Based Computations: Perspectives from Logic and Constraint-Based Programming*

Friedhelm Meyer auf der Heide, Berthold Vöcking: *Static and Dynamic Management in Networks*
Ulrich Rüde: *Iterative Algorithms on High Performance Architectures*
Per Stenström, Jonas Skeppstedt: *A Performance Tuning Approach for Shared-Memory Multiprocessors*

Topics:

- Support Tools and Environments
- Routing and Communication in Interconnection Networks
- Automatic Parallelization and High-Performance Compilers
- Distributed Systems and Algorithms
- Parallel Languages
- Concurrent Object-Oriented Programming
- Programming Models and Methods
- Parallel Discrete Algorithms
- Parallel Numerical Algorithms
- Image and Signal Processing and Special-Purpose Processors
- Design Automation of Parallel VLSI Circuits
- Applications of High-Performance Computing
- Theory and Models of Parallel Computation
- Parallel Computer Architecture
- Scheduling and Load Balancing
- Performance Evaluation
- Instruction-Level Parallelism
- Parallel and Distributed Database Systems
- Symbolic Computation
- Real-Time Systems and Constraints

Distinguished papers: Pedro D. Medeiros, Jose C. Cunha: *Interconnecting Multiple Heterogeneous Parallel Application Components* | Emmanouel A. Varvarigos, Jonathan P. Lang: *An Analysis of Deflection-Based Wormhole Routing with Virtual Channels* | Gianfranco Bilardi, Bruno Codenotti, Gianna Del Corso, Cristina Pinotti, Giovanni Resta: *Broadcast and Associative Operations on Fat-Trees* | Q. Wu, A. J. Field, Paul H. J. Kelly: *M-Tree: A Parallel Abstract Data Type for Block-Irregular Adaptive Applications* | C. B. Jay, M. I. Cole, M. Sekanina, P. Steckler: *A Monadic Calculus for Parallel Costing of a Functional Language of Arrays* | Thomas Rauber, Gudula Rünger, Carsten Scholtes: *Scalability of Parallel Sparse Cholesky Factorization* | Jerome Galtier: *Load Balancing Issues in the Prepartitioning Method* | Jens Simon, Marco Vieth, Reinhold Weicker: *Workload Analysis of Computation Intensive Tasks: Case Study on SPEC CPU95 Benchmarks* | Augusto Burgueño, Vlad Rusu: *Task-System Analysis Using Slope-Parametric Hybrid Automata*

Co-located workshop: ESPRIT

Tutorials: Jack Dongarra: Technologies for High-Performance Computing
Per Stenström: Advances in Parallel Computing Architecture
Jonathan Hill and David Skillicorn: BSP Programming
Martin Wirsing: Concurrency in Java: Programming Techniques and Semantics
Yves Robert: Data redistribution: Why and How
Frederic Deprez: The Perfect Message-Passing Environment



Euro-Par 1995 – Stockholm



Photo: pixabay

Organisers: Seif Haridi, Khayri Ali and Peter Magnusson

Keynotes: Gregory M. Papadopoulos: *Mainstream Parallelism: Taking Sides on the SMP/MPP/Cluster Debate*

Gert Smolka: *The Oz Programming Model*

Björn Engquist: *Parallelism in Computational Algorithms and the Physical World*

Topics:

- Language implementation
- Architecture design
- Semantics and tools
- Interconnection networks
- Parallel algorithms
- Cache systems
- Loop parallelisation
- Load balancing
- Compiling techniques
- Applications
- Scheduling
- Fault tolerance
- SIMD array architectures

Most cited papers:

Gert Smolka: *The Oz Programming Model*

John Darlington, Yi-ke Guo, Hing Wing To, Jin Yang: *Functional Skeletons for Parallel Coordination*

Derek Chiou, Boon Seong Ang, Robert Greiner, Arvind, James C. Hoe, Michael J. Beckerle, James E. Hicks, G. Andrew Boughton: *START-NG: Delivering Seamless Parallel Computing*

Olivier C. Maquelin, Herbert H. J. Hum, Guang R. Gao: *Costs and Benefits of Multithreading with Off-the-Shelf RISC Processors*

Fong Pong, Andreas Nowatzky, Gunes Aybay, Michel Dubois: *Verifying Distributed Directory-Based Cache Coherence Protocols: S3.mp, a Case Study*

Christian Clemencon, Josef Fritscher, Michael J. Meehan, Roland Ruhl: *An Implementation of Race Detection and Deterministic Replay with MPI*

Martin Griebl, Jean-François Collard: *Generation of Synchronous Code for Automatic Parallelization of while Loops*

**Lecture Notes in
Computer Science**

966

**Seif Haridi Khayri Ali
Peter Magnusson (Eds.)**

**EURO-PAR '95
Parallel Processing**

**First International EURO-PAR Conference
Stockholm, Sweden, August 1995
Proceedings**



Springer

