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Euro-Par 2017: Parallel Processing Workshops

Euro-Par 2017 International Workshops
Santiago de Compostela, Spain, August 28–29, 2017
Revised Selected Papers

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Preface

Euro-Par is an annual international conference in Europe covering all aspects of parallel and distributed processing. These range from theory to practice, from small to the largest parallel and distributed systems and infrastructures, from fundamental computational problems to full-fledged applications, from architecture, compiler, language, and interface design and implementation to tools, support infrastructures, and application performance aspects. The Euro-Par conference itself is complemented by a workshop program, where workshops dedicated to more specialized themes, to cross-cutting issues, and to upcoming trends and paradigms can be easily and conveniently organized with little administrative overhead.

This year, 16 workshop proposals were submitted, and after a careful review process, which was led by the workshop co-chairs, 13 workshops were accepted. Three workshops had to be cancelled later due to a low number of submissions.

The workshops took place on the two days before the Euro-Par conference and the program included the following ten workshops:

1. Workshop on Advanced Parallel Processing Technology for Artificial Intelligence (APPT)
2. Workshop on Autonomic Solutions for Parallel and Distributed Data Stream Processing (AUTO-DASP)
3. Open Workshop on Data Locality (COLOC)
4. European Workshop on Parallel and Distributed Computing Education for Undergraduate Students (EURO-EDUPAR)
5. Workshop on Fog-to-Cloud Distributed Processing (F2C-DP)
6. Workshop on Algorithms, Models, and Tools for Parallel Computing on Heterogeneous Platforms (HETEROPAR)
7. Workshop on Large-Scale Distributed Virtual Environments (LSDVE)
8. 10th Workshop on Resiliency in High-Performance Computing with Clouds, Grids, and Clusters (RESILIENCE)
9. 5th Workshop on Runtime and Operating Systems for the Many-Core Era (ROME)
10. Workshop on Unconventional High-Performance Computing (UCHPC)

All workshops together received a total of 119 submissions from 41 different countries. Each workshop had an independent Program Committee, which was in charge of selecting the papers. The workshop papers received more than three reviews per paper on average (390 reviews in total). Out of the 119 submissions, 71 papers were selected to be presented at the workshops. One of the presented papers was not included in the final proceedings because it was considered short paper. Thus, the acceptance rate was 58%.

The success of the Euro-Par workshops depends on the work of many individuals and organizations. We therefore thank all workshop organizers and reviewers for the time and effort that they invested. We would also like to express our gratitude to the

members of the Organizing Committee and the local staff, especially the volunteer PhD students, who helped us. Sincere thanks are due to Springer for their help in publishing the proceedings. This volume includes the 55 selected papers of nine workshops and also a section called Complementary Papers that includes four selected papers originally sent to the three cancelled workshops. The 11 papers accepted by the APPT workshop were also published in a separate volume by Springer.

Lastly, we thank all participants, panelists, and keynote speakers of the Euro-Par workshops for their contribution to a productive meeting. It was a pleasure to organize and host the Euro-Par workshops 2017 in Santiago de Compostela.

September 2017

Dora B. Heras

Luc Bougé

The original version of the Book Frontmatter has been revised: In addition to the first two volume editors the seven Workshop Chairs have been added as volume editors. The erratum to the Book Frontmatter is available at
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Contents

Auto-DASP – Workshop on Autonomic Solutions for Parallel and Distributed Data Stream Processing

Moderated Resource Elasticity for Stream Processing Applications	5
<i>Michael Borkowski, Christoph Hochreiner, and Stefan Schulte</i>	
Container-Based Support for Autonomic Data Stream Processing Through the Fog	17
<i>Antonio Brogi, Gabriele Mencagli, Davide Neri, Jacopo Soldani, and Massimo Torquati</i>	
NOA-AID: Network Overlays for Adaptive Information Aggregation, Indexing and Discovery at the Edge	29
<i>Patrizio Dazzi and Matteo Mordacchini</i>	
Nornir: A Customizable Framework for Autonomic and Power-Aware Applications	42
<i>Daniele De Sensi, Tiziano De Matteis, and Marco Danelutto</i>	
Supporting Advanced Patterns in GrPPI, a Generic Parallel Pattern Interface	55
<i>David del Rio Astorga, Manuel F. Dolz, Javier Fernández, and J. Daniel García</i>	
A Topology and Traffic Aware Two-Level Scheduler for Stream Processing Systems in a Heterogeneous Cluster	68
<i>Leila Eskandari, Jason Mair, Zhiyi Huang, and David Eysers</i>	
Stateful Load Balancing for Parallel Stream Processing	80
<i>Qingsong Guo and Yongluan Zhou</i>	
Towards Memory-Optimal Schedules for SDF	94
<i>Mitchell Jones, Julián Mestre, and Bernhard Scholz</i>	
Towards Hierarchical Autonomous Control for Elastic Data Stream Processing in the Fog	106
<i>Valeria Cardellini, Francesco Lo Presti, Matteo Nardelli, and Gabriele Russo Russo</i>	
PiCo: A Novel Approach to Stream Data Analytics	118
<i>Claudia Misale, Maurizio Drocco, Guy Tremblay, and Marco Aldinucci</i>	

Viper: Communication-Layer Determinism and Scaling in Low-Latency Stream Processing	129
<i>Ivan Walulya, Yiannis Nikolakopoulos, Vincenzo Gulisano, Marina Papatriantafilou, and Philippas Tsigas</i>	
Scalability and State: A Critical Assessment of Throughput Obtainable on Big Data Streaming Frameworks for Applications With and Without State Information	141
<i>Shinhyung Yang, Yonguk Jeong, ChangWan Hong, Hyunje Jun, and Bernd Burgstaller</i>	
COLOC – Workshop on Data Locality	
Netloc: A Tool for Topology-Aware Process Mapping.	157
<i>Cyril Bordage, Clément Foyer, and Brice Goglin</i>	
Runtime Support for Distributed Dynamic Locality	167
<i>Tobias Fuchs and Karl Förlinger</i>	
Large-Scale Experiment for Topology-Aware Resource Management.	179
<i>Yiannis Georgiou, Guillaume Mercier, and Adèle Villiermet</i>	
Euro-EDUPAR – European Workshop on Parallel and Distributed Computing Education for Undergraduate Students	
SCoPE@Scuola: (In)-formative Paths on Topics Related with High Performance, Parallel and Distributed Computing	191
<i>Giovanni Battista Barone, Vania Boccia, Davide Bottalico, and Luisa Carracciolo</i>	
A Set of Patterns for Concurrent and Parallel Programming Teaching	203
<i>Manuel I. Capel, Antonio J. Tomeu, and Alberto G. Salguero</i>	
Integrating Parallel Computing in Introductory Programming Classes: An Experience and Lessons Learned	216
<i>Sheikh Ghafoor, David W. Brown, and Mike Rogers</i>	
Revisiting Flynn’s Classification: The Portfolio Approach	227
<i>Yanik Ngoko and Denis Trystram</i>	
Experience with Teaching PDC Topics into Babeş-Bolyai University’s CS Courses	240
<i>Virginia Niculescu and Darius Bufnea</i>	
Cellular ANTomata: A Tool for Early PDC Education.	252
<i>Arnold L. Rosenberg</i>	

Teaching Software Transactional Memory in Concurrency Courses with Clojure and Java	266
<i>Antonio J. Tomeu, Alberto G. Salguero, and Manuel I. Capel</i>	

F2C-DP – Workshop on Fog-to-Cloud Distributed Processing

Benefits of a Coordinated Fog-to-Cloud Resources Management Strategy on a Smart City Scenario.	283
<i>Andrea Bartoli, Francisco Hernández, Laura Val, Jose Gorchs, Xavi Masip-Bruin, Eva Marín-Tordera, Jordi Garcia, Ana Juan, and Admela Jukan</i>	
Fog and Cloud in the Transportation, Marine and eHealth Domains	292
<i>Matija Cankar, Eneko Olivares Gorriti, Matevž Markovič, and Flavio Fuat</i>	
Scalable Linux Container Provisioning in Fog and Edge Computing Platforms.	304
<i>Michele Gazzetti, Andrea Reale, Kostas Katrinis, and Antonio Corradi</i>	
A Hash-Based Naming Strategy for the Fog-to-Cloud Computing Paradigm.	316
<i>Alejandro Gómez-Cárdenas, Xavi Masip-Bruin, Eva Marín-Tordera, Sarang Kahvazadeh, and Jordi Garcia</i>	
An Architecture for Programming Distributed Applications on Fog to Cloud Systems.	325
<i>Francesc Lordan, Daniele Lezzi, Jorge Ejarque, and Rosa M. Badia</i>	
Making Use of a Smart Fog Hub to Develop New Services in Airports	338
<i>Antonio Salis and Glauco Mancini</i>	

HeteroPar – Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms

Approximation Algorithm for Scheduling a Chain of Tasks on Heterogeneous Systems.	353
<i>Massinissa Ait Aba, Lilia Zaourar, and Alix Munier</i>	
Software-Distributed Shared Memory over Heterogeneous Micro-server Architecture.	366
<i>Loïc Cudennec</i>	
A High-Throughput Kalman Filter for Modern SIMD Architectures	378
<i>Daniel Hugo Cámpora Pérez, Omar Awile, and Cédric Potterat</i>	

Resource Contention Aware Execution of Multiprocessor Tasks on Heterogeneous Platforms	390
<i>Robert Dietze, Michael Hofmann, and Gudula Rünger</i>	
Hybrid CPU-GPU Simulation of Hierarchical Adaptive Random Boolean Networks.	403
<i>Kirill Kuvshinov, Klavdiya Bochenina, Piotr J. Górski, and Janusz A. Holyst</i>	
Benchmarking Heterogeneous Cloud Functions.	415
<i>Maciej Malawski, Kamil Figiela, Adam Gajek, and Adam Zima</i>	
Impact of Compiler Phase Ordering When Targeting GPUs	427
<i>Ricardo Nobre, Luís Reis, and João M. P. Cardoso</i>	
Evaluating Scientific Workflow Execution on an Asymmetric Multicore Processor.	439
<i>Ilia Pietri, Sicong Zhuang, Marc Casas, Miquel Moretó, and Rizos Sakellariou</i>	
Operational Concepts of GPU Systems in HPC Centers: TCO and Productivity	452
<i>Fabian P. Schneider, Sandra Wienke, and Matthias S. Müller</i>	
Large Scale Graph Processing in a Distributed Environment.	465
<i>Nitesh Upadhyay, Parita Patel, Unnikrishnan Cheramangalath, and Y. N. Srikant</i>	
LSDVE – Workshop on Large Scale Distributed Virtual Environments	
Appraising SPARK on Large-Scale Social Media Analysis.	483
<i>Loris Belcastro, Fabrizio Marozzo, Domenico Talia, and Paolo Trunfio</i>	
A Spatial Analysis of Multiplayer Online Battle Arena Mobility Traces	496
<i>Emanuele Carlini and Alessandro Lulli</i>	
Long Transaction Chains and the Bitcoin Heartbeat.	507
<i>Giuseppe Di Battista, Valentino Di Donato, and Maurizio Pizzonia</i>	
Dynamic Community Analysis in Decentralized Online Social Networks	517
<i>Barbara Guidi, Andrea Michienzi, and Giulio Rossetti</i>	
Multi-objective Service Oriented Network Provisioning in Ultra-Scale Systems.	529
<i>Dragi Kimovski, Sashko Ristov, Roland Mathá, and Radu Prodan</i>	

Resilience – Workshop on Resiliency in High Performance Computing with Clouds, Grids, and Clusters

Understanding and Improving the Trust in Results of Numerical Simulations and Scientific Data Analytics	545
<i>Franck Cappello, Rinku Gupta, Sheng Di, Emil Constantinescu, Thomas Peterka, and Stefan M. Wild</i>	
Pattern-Based Modeling of High-Performance Computing Resilience.	557
<i>Saurabh Hukerikar and Christian Engelmann</i>	
On the Resilience of Conjugate Gradient and Multigrid Methods to Node Failures	569
<i>Carlos Pachajoa and Wilfried N. Gansterer</i>	
It's Not the Heat, It's the Humidity: Scheduling Resilience Activity at Scale	581
<i>Patrick M. Widener, Kurt B. Ferreira, and Scott Levy</i>	

ROME – Workshop on Runtime and Operating Systems for the Many-core Era

Data Partitioning Strategies for Stencil Computations on NUMA Systems	597
<i>Frank Feinbube, Max Plauth, Marius Knaust, and Andreas Polze</i>	
Delivering Fairness on Asymmetric Multicore Systems via Contention-Aware Scheduling	610
<i>Adrian Garcia-Garcia, Juan Carlos Saez, and Manuel Prieto-Matias</i>	
Powernightmares: The Challenge of Efficiently Using Sleep States on Multi-core Systems	623
<i>Thomas Ilsche, Marcus Hähnel, Robert Schöne, Mario Bielert, and Daniel Hackenberg</i>	
Help Your Busy Neighbors: Dynamic Multicasts over Static Topologies	636
<i>Robert Kuban, Randolph Rotta, and Jörg Nolte</i>	

UCHPC – Workshop on Unconventional High Performance Computing

Accelerating the 3-D FFT Using a Heterogeneous FPGA Architecture	653
<i>Matthew Anderson, Maciej Brodowicz, Martin Swamy, and Thomas Sterling</i>	

Evaluation of a Floating-Point Intensive Kernel on FPGA: A Case Study of Geodesic Distance Kernel	664
<i>Zheming Jin, Hal Finkel, Kazutomo Yoshii, and Franck Cappello</i>	

Shallow Water Waves on a Deep Technology Stack: Accelerating a Finite Volume Tsunami Model Using Reconfigurable Hardware in Invasive Computing.	676
<i>Alexander Pöpl, Marvin Damschen, Florian Schmaus, Andreas Fried, Manuel Mohr, Matthias Blankertz, Lars Bauer, Jörg Henkel, Wolfgang Schröder-Preikschat, and Michael Bader</i>	

Linking Application Description with Efficient SIMD Code Generation for Low-Precision Signed-Integer GEMM	688
<i>Günther Schindler, Manfred Mücke, and Holger Fröning</i>	

Complementary Papers

A Formula-Driven Scalable Benchmark Model for ABM, Applied to FLAME GPU	703
<i>Eidah Alzahrani, Paul Richmond, and Anthony J. H. Simons</i>	

PhotoNoCs: Design Simulation Tool for Silicon Integrated Photonics Towards Exascale Systems.	715
<i>Juan-Jose Crespo, Francisco J. Alfaro-Cortés, and José L. Sánchez</i>	

On the Effects of Data-Aware Allocation on Fully Distributed Storage Systems for Exascale.	725
<i>Jose A. Pascual, Caroline Concatto, Joshua Lant, and Javier Navaridas</i>	

Efficient Implementation of Data Objects in the OSD+-Based Fusion Parallel File System.	737
<i>Juan Piernas and Pilar González-Férez</i>	

Erratum to: Euro-Par 2017: Parallel Processing Workshops	E1
<i>Dora B. Heras, Luc Bougé, Gabriele Mencagli, Emmanuel Jeannot, Rizos Sakellariou, Rosa M. Badia, Jorge G. Barbosa, Laura Ricci, Stephen L. Scott, Stefan Lankes, and Josef Weidendorfer</i>	

Author Index	749
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