



PDP 2008 PROGRAM

Wednesday, 13th February, 2008

<i>08.00 a.m</i>	<i>Registration</i>
<i>08.30 a.m</i>	<p><i>Welcome Address</i></p> <p><i>Dr. Jean Louis Sanchez, Assistant Director of LAAS/CNRS</i></p> <p><i>Dr. Karl-Erwin Grosspietsch, Chairman of Euromicro</i></p> <p><i>Dr. Julien Bourgeois, Dr. François Spies, Program Co-Chairmen of PDP</i></p> <p><i>Dr. Didier El Baz Organization Chairman of PDP Program Co-Chairman, Session Chair</i></p> <p><i>Conferences Room</i></p>
<i>09.00 a.m</i>	<p><i>Architecture Challenges to Reach PetaFlops Frontier</i></p> <p><i>M. SIMON, Principal Engineer - SGI</i></p> <p><i>Invited speaker</i></p> <p><i>Conferences Room</i></p>
<i>09.30 a.m</i>	<i>Coffee break</i>

Wednesday, 13th February, 2008

10.00 a.m	T1 ADVANCED ARCHITECTURES VIGNEMALE ROOM CHAIRMAN : D. EL BAZ	T5 COMMUNICATIONS,SYNCHRONIZATION EUROPE ROOM CHAIRMAN :V. SUNDERAM	T4 ENVIRONNMENTS, RUNTIME SUPPORT, PERFORMANCE PREDICTION AND EVALUATION CONFERENCES ROOM CHAIRMAN : F. WOLF
	R4-16 Evaluating the cache architecture of multicore processors <i>Jie Tao, Marcel Kunze, Wolfgang Karl</i>	R10-28 Secure communication for computational steering of grid jobs <i>Daniel Lorenz, Peter Buchholz, Christian Uebing, Wolfgang Walkowiak, Roland Wismüller</i>	R15-41 Virtualized Environments for the Harness High Performance Computing Workbench <i>Björn Könnig, Christian Engelmann, Stephen L. Scott, Al Geist</i>
	R40-118 Exploiting wiring resources on Interconnection Network: Increasing Path Diversity <i>Crispin Gomez Requena, Maria Engracia Gomez, Pedro Lopez, Jose Duato</i>	R35-109 Peer to Peer communications to provide a QOS aware system for multicast <i>Pierre Delannoy, Monique Becker</i>	R54-145 Runtime Locality Optimizations of Distributed Java Applications <i>Christian Hütter, Thomas Moschny</i>
	R25-78 Link Characterization of conflicts in Log-Based Transactional Memory (LogTM) <i>J. Ruben Titos Gil, Manuel. E. Acacio Sanchez, José M. Garcia Carrasco</i>	R18-50 SAP2P: Self-adaptive and locality-aware P2P membership protocol for heterogeneous systems <i>Zhenyu Li, Zengyang Zhu, Zhongcheng Li, Gaogang Xie</i>	R20-58 A Graphical Framework For High Performance Computing Using An MDE Approach <i>Julien Taillard, Frédéric Guyomarc'h, Jean-Luc Dekeyser</i>
	S26-120 Means : A Micro-Thread architecture for Network Server <i>Yingchun Lei, Wen Zhang , Yili Gong, Huyin Zhang</i>	R11-31 Edge stream oreinted LDPC decoding <i>Gabriel Falcao Paiva Fernandes, Vitor Manuel Mendes Da Silva, Marco A.Cravo Gomes, Leonel A. Pires Seabra De Sousa</i>	
12.00 a.m	Lunch		

Wednesday, 13th February, 2008

<i>1.15 p.m</i>	<p><i>Christopher Huggins – Clustervision</i> <i>Invited speaker</i> Conferences Room – Chairman : D. El Baz</p>		
<i>1.45 p.m</i>	<p>SS1 GRID, PARALLEL AND DISTRIBUTED BIOINFORMATICS APPLICATIONS VIGNEMALE ROOM CHAIRMEN : D. DAGOSTINO - I. MERELLI</p>	<p>T5 COMMUNICATIONS, SYNCHRONIZATION EUROPE ROOM CHAIRMAN : D. EL BAZ</p>	<p>T4 ENVIRONNMENTS, RUNTIME SUPPORT, PERFORMANCE PREDICTION AND EVALUATION CONFERENCES ROOM CHAIRMAN : M. DANELUTTO</p>
	<p>R12-32 Multiple Ligand trajectory docking study - semiautomatic analysis of molecular dynamics simulations using egee glite services <i>Ales Krenek, Martin Petrek, Jan Kmunicek, Jiri Filipovic, Zdenek Sustr, Frantisek Dvorak, Jiri Sitera, Jiri Wiesner, Luek Matyska</i></p>	<p>R53-143 Dependability evaluation and modeling of the bluetooth data communication channel <i>Gabriella Carrozza, Marcello Cinque, Domenico Cotreneo, Stefano Russo</i></p>	<p>S1-26 Robust Workload Estimation in Queueing Network Performance Models <i>Giuliano Casale, Paolo Cremonesi, Roberto Turrin</i></p>
	<p>R51-139 A Grid Service based Parallel Molecular Surface Reconstruction System <i>Daniele D'Agostino, Andrea Clematis, Ivan Merelli, Luciano Milanese, Matteo Coloberti</i></p>	<p>R19-54 Comparison of the onloading and offloading strategies to improve network interfaces <i>Andres Ortiz, Julio Ortega, Antonio F. Diaz, Alberto Prieto</i></p>	<p>S14-77 A Performance Model for Federated Grid Infrastructures <i>Constantino Vazquez, Eduardo Huedo, Rubén Santiago Montero, Ignacio MartinLlorente</i></p>
	<p>R9-24 Parametric Architecture for Modeling Neuronal Systems <i>María Teresa Signes Pont, Gregorio de Miguel Casado, Juan Manuel García Chamizo, Higinio Mora</i></p>	<p>R41-123 CellStats: a Tool to Evaluate the Basic Synchronization and Communication Operations of the Cell BE <i>José L. Abellán, Juan Fernández, Manuel E. Acacio</i></p>	<p>S16-89 Performance evaluation and optimization of parallel grid computing applications <i>Daniel Becker, Wolfgang Frings, Felix Wolf</i></p>
		<p>S18-92 Improving Token Coherence by Multicast Coherence Messages <i>Blas Cuesta, Antonio Robles Martinez, Jose Francisco Duato Marin</i></p>	<p>S27-127 Performance Analysis of Bus-Based Interconnects for a Run-Time Reconfigurable Co-Processor Platform <i>Carsten Albrecht, Philipp Ross, Roman Koch, Thilo Pionteck, Erik Maehle</i></p>

Wednesday, 13th February, 2008

<i>3.45 p.m</i>	<i>Coffee Break</i>	
<i>4.00 p.m</i>	SS5 VIRTUALIZATION IN DISTRIBUTED SYSTEMS CONFERENCES ROOM CHAIRMAN : TH. DELAITRE	T2 PARALLEL PROGRAMMING MODELS EUROPE ROOM CHAIRMAN : J. GUSTEDT
<i>End 5.30 p.m</i>	R56-147 Automatic Service Deployment Using Virtualization <i>Gabor Kecskemeti, Gabor Terstyanszky, Tamas Kiss, Thierry Delaitre, Peter Kacsuk</i>	R45-130 Behavioural skeletons in GCM: autonomic management of grid components <i>Marco Aldinucci, Sonia Campa, Marco Danelutto, Marco Vanneschi, Patrizio Dazzi, Peter Kilpatrick, Domenico Laforenza, Nicola Tonellotto</i>
	R55-146 System-Level Virtualization for High Performance Computing <i>Geoffroy Vallee, Thomas Naughton, Christian Engelman, Hong Ong, Stephen L. Scott</i>	R37-112 A Transformation Framework for Communicating Multiprocessor-Tasks JÖRG DÜMMLER, THOMAS RAUBER, GUDULA RÜNGER
	R49-136 The VirtuaLinux Storage Abstraction Layer for Efficient Virtual Clustering <i>Marco Aldinucci, Massimo Torquati, Marco Vanneschi, Pierfrancesco Zuccato</i>	S12-71 Processor-oblivious parallel stream computations <i>Julien Bernard, Jean-Louis Roch, Daouda Traore</i>
<i>7.00 p.m</i>	<i>Welcome Reception at the City Hall</i>	

Thursday, 14th February, 2008

09.00 a.m	<p>Technology Update for HPC Solutions at Sun Microsystems Ph. Trautmann, HPC Business Development Manager, Sun Microsystems Invited Speaker Conferences Room – Chairman : D. El Baz</p>
09.30 a.m	<p>Coffee break</p>
10.00 a.m	<p>T9 Best Papers Conferences Room Chairmen : J. Bourgeois – F. Spies</p>
	<p>R24-76 Modelling asynchronous systems using probability distribution functions <i>Jose Manuel Colmenar, Noelia Moron, Oscar Garnica, Juan Lanchares, Jose Ignacia Hidalgo</i></p>
	<p>R1-9 Fast tomographic reconstruction with vectorized backprojection <i>Jose-Ignacio Agulleiro, Ester M. Garzon, Inmaculada Garcia, Jose-Jesus Fernandez</i></p>
	<p>R8-23 Type Safe Algorithmic Skeletons <i>Denis Caromel, Ludovic Henrio, Mario Leyton</i></p>
	<p>R43-128 xENoC - An eXperimental Network-on-Chip Environment for Parallel Distributed Computing on NoC-based MPSoC architectures <i>Jaume Joven , Oriol Font-Bach, David Castells-Rufas, Ricardo Martinez, Lluís Teres, Jordi Carrabina</i></p>
12.00 a.m	<p>Lunch</p>

Thursday, 14th February, 2008

<i>1.30 p.m</i>	T6 PARALLEL AND DISTRIBUTED ALGORITHMS VIGNEMALE ROOM CHAIRMEN : F. SPIES – J. BOURGEOIS	T8 ADVANCED APPLICATIONS EUROPE ROOM CHAIRMAN : D. EL BAZ	SS4 SECURITY IN NETWORKED AND DISTRIBUTED SYSTEMS CONFERENCES ROOM CHAIRMAN : I. KOTENKO
	R14-37 Understanding the Performance of Sparse Matrix-Vector Multiplication <i>Georgios Goumas, Kornilios Kourtis, Nikos Anastopoulos, Vasileios Karakasis, Nectarios Koziris</i>	R16-43 Paralelizing PBIL for solving a real-world frequency assigment problem in GSM networks <i>Jose M. Chaves-Gonzalez, David Dominguez- Gpnzalez, Miguel A. Vega-rodriguez, Juan A. Gomez-Pulido, Juan M. Sanchez-Perez</i>	R52-141 Packet level simulation of cooperative distributed defense against internet attacks <i>Igor Kotenko, Alexander Ulanov</i>
	R17-47 Out-of-Core Wavefront Computations with Reduced Synchronization <i>Pierre-Nicolas Clauss, Jens Gustedt, Frédéric Suter</i>	R50-138 Dynamic algorithms for energy minimization on parallel machines <i>Jaeyeon Kang, Sanjay Ranka</i>	R39-114 FT-FW: Efficient Connection Failover in Cluster-based Stateful Firewall <i>Pablo Neira Ayuso, Rafael Martínez Gasca, Laurent Lefevre</i>
	R27-85 Scheduling of QR factorization algorithms on SMP and multi-core architectures <i>Gregorio Quintana-Orti, Enrique S. Quintana- Orti, Eernie Chan, Robert A. Van de Geijn, Field G. Van Zee</i>	R44.129 Exploiting data- and thread-level parallelism for image correlation <i>Juergen Kadidlo, Alfred Strey</i>	R30-96 An Optimized Double Cache Technique for Efficient Use of Forward-secure Signature Schemes <i>Diana Berbecaru, Luca Albertalli</i>
	S3-29 State-copying and recomputation in parallel constraint programming with global constraints <i>Carl Christian Rolf, Krzysztof Kuchinski</i>	R48-135 Bulk-Synchronous On-Line Crawling on Clusters of Computers <i>Mauricio Marin, Carolina Bonacic</i>	R22-65 Privacy protection in context transfer protocol <i>Giorgos Karopoulos, Georgios Kambourakis, Stefanos Gritzalis</i>
	S13-73 An evaluation of communication-optimal algorithms <i>Mikel Larrea, Iratxe Soraluze, Roberto Cortinas, Alberet Lafuente</i>	S6-40 Evaluation of a Fabric Management Mechanism for Advanced Switching in Presence of Traffic <i>Robles-Gómez Antonio, Bermúdez Aurelio, Casado Rafael, Quiles Francisco J.</i>	

Thursday, 14th February, 2008

3.30 p.m	Coffee Break		
4.00 p.m	SS3 NEXT GENERATION OF WEB COMPUTING VIGNEMALE ROOM CHAIRMAN : K. KLÖCKNER	T8 ADVANCED APPLICATIONS EUROPE ROOM CHAIRMAN :M. EL KIHEL	SS4 SECURITY IN NETWORKED AND DISTRIBUTED SYSTEMS CONFERENCES ROOM CHAIRMAN : I. KOTENKO
End 5.15 p.m	R6-20 CoDaMine: Communication Data Mining for Feedback and Control in Ubiquitous Environments Tom Gross, Mirko Fetter	R3-15 Decentralized learning of a Gaussian Mixture with variational Bayes-based aggregation Marc Gelgon, Afshin Niksereshi	S28-133 Building and Managing Policy-Based Secure Overlay Networks Gregorio Martinez Perez, Felix J. Garcia Clemente, Antonio F. Gomez Skarmeta
	R42-124 VieBOP: Extending BPEL Engines by BPEL4People Ta'id Holmes, Martin Vasko, Schahram Dustdar	S9-48 A distributed parallel algorithm to solve the 2D cutting stock problem Coromoto Leon, Gara Miranda, Casiano Rodriguez, Carlos Segura	S4-35 Distributing Trust Verification to Increase Application Performance Mariano Ceccato, Jasvir Nagra, Paolo Tonella
	S7-45 Towards Building Virtual Communities for Ambient Assisted Living Hong Sun, Vincenzo De Florio, Ning Gui, Chris Blondia	S15-80 Grid Computing in order to Implement a Three- Dimensional Magnetohydrodynamic Equilibrium Solver for Plasma Confinements Antonio Gómez-Iglesias, Miguel A. Vega-Rodríguez, Francisco M. Castejón Magaña, Manuel Rubio del Solar, Miguel Cárdenas Montes	S25-117 Integrating Deployment Techniques with Monitoring : the Proactive Configuration Checker (PCC) Cataldo Basile, Paolo Carlo Pomi, Piervito Giovanni Scaglioso
		S22-102 Distributed Sparse Spatial Selection Indexes Veronica Gil-Costa, Mauricio Marin	
7.30 p.m	Gala Dinner		

Friday, 15th February, 2008

8.30 a.m	Unibus : An Integrative Approach to Next-Generation Metacomputing Professor Vaidy Sunderam, Emory University Invited speaker Conferences Room – Chairmen : J. Bourgeois, F. Spies		
09.30 a.m	Coffee break		
10.00 a.m	SS2 MODELLING, SIMULATION AND OPTIMIZATION OF PEER TO PEER ENVIRONNMENTS EUROPE ROOM CHAIRMEN : A. BINZENHÖFER – J. BOURGEOIS	T3 DISTRIBUTED SYSTEMS : MANAGEMENT AND RESOURCE SELECTION VIGNEMALE ROOM CHAIRMAN : M. ALDINUCCI	T7 SCHEDULING, LOAD BALANCING AND TASK MAPPING CONFERENCES ROOM CHAIRMAN : Y. COTRONIS
	R47-134 Comparing Maintenance Strategies for Overlays <i>Supriya Krishnamurthy, Sameh El-Ansary, Erik Aurell, Seif Haridi</i>	R2-10 Autonomic Management for Grid Applications <i>Mahamadou Touré, Girma Berhe, Patricia Stolf, Laurent Broto, Noel Depalma, Daniel Hagimont</i>	R28-86 Static load distribution for communication intensive parallel computing in multiclusters <i>Eric Heien, Noriyuki Fujimoto, Kenichi Hagihara</i>
	R38-113 A Study on Traffic Characteristics Evaluation for a Pure P2P Application <i>Satoshi Ohzahata, Konosuke Kawashima</i>	R26-83 Efficient Global Pointers With Spontaneous Process Migration <i>Koji Noguchi, Michael Dillencourt, Lubomir Bic</i>	R46-132 Load Balancing Distributed Inverted Files: Query Ranking <i>Carlos Gomez-Pantoja, Mauricio Marin</i>
	R31-97 A Simulation Framework for Distributed Super-Peer Topology Construction Using Network Coordinates <i>Peter Merz, Matthias Priebe, Steffen Wolf</i>	S20-94 Personal Overlay Networks Management using a P2P-based Publish/Subscribe Naming System <i>Wassef Louati, Djamel Zeglache</i>	R5-19 Just-in-time scheduling for loop-based speculative parallelization <i>Diego R. Llanos, David Orden, Belén Palop</i>
	R13-34 Large Scale Distributed Simulation of p2p Networks <i>Tien Tuan Anh Dinh, Michael Lees, Georgios Theodoropoulos, Rob Minson</i>	S29-142 A Distributed Reputation Control Architecture Based on Virtual Organisation Domains in the Grid Economy <i>Zhenkuan Pan, Guanfeng Liu, Yuebin Xu</i>	R34-108 The Impact of Under-Estimated Length of Jobs on EASY-Backfill Scheduling <i>Adam Wong, Andrzej Goscinski</i>
		S17-91 Resource Selection in Grids Using Contract Net <i>Kunal Goswami, Arobinda Gupta</i>	
		S8-46 Comparing grid data transfer technologies in the Expand parallel file system <i>Borja Bergua, Felix Garcia-Carbealleira, Alejandro Calderon, Luis Miguel Sanchez, Jesus Carretero</i>	

Friday, 15th February, 2008

12.00 a.m	Lunch		
1.30 p.m	SS2 MODELLING, SIMULATION AND OPTIMIZATION OF PEER TO PEER ENVIRONNMENTS EUROPE ROOM CHAIRMAN : A. BINZENHÖFER	T3 DISTRIBUTED SYSTEMS : MANAGEMENT AND RESOURCE SELECTION VIGNEMALE ROOM CHAIRMAN : M. ALDINUCCI	T7 SCHEDULING, LOAD BALANCING AND TASK MAPPING CONFERENCES ROOM CHAIRMAN : Y. COTRONIS
	R21-61 Routing Performance in a Hierarchical DHT-based Overlay Networks <i>Isaias Martinez-Yelmo, Ruben Cuevas, Carmen Guerrero, Andreas Mauthe</i>	S21-98 Fine-Grained Workflow in Heterogeneous Environments <i>Oisín Curran, Paddy Downes, John Cunniffe, Andy Shearer</i>	R32-100 Tuning the efficiency of parallel adaptive integration with synchronizers <i>Janusz Borkowski, Marek Tudruj</i>
	R33-101 Reflecting P2P User Behaviour Models in a Simulation Environment <i>Vinay Aggarwal, Obi Akonjang, Anja Feldmann, Rumen Tashe, Sebastian Mohrs</i>	S23-103 A multi-perspective taxonomy for systematic classification of grid faults <i>Juergen Hofer, Thomas Fahringer</i>	R7-22 Extending IC-Scheduling via the Sweep Algorithm <i>Gennaro Cordasco, Grzegorz Malewicz, Arnold Rosenberg</i>
	S11-59 On the Double-Faced Nature of P2P Traffic <i>Raffaele Bolla, Marco Canini, Riccardo Rapuzzi, Michele Sciuto</i>	WIP SESSION Vignemale Room Chairmen : K.E. Grosspietsch – K. Klöckner	S2-27 Comparison of Batch Scheduling for Identical Multi-Tasks Jobs on Heterogeneous Platforms <i>Sekou Diakite, Jean-Marc Nicod, Laurent Philippe</i>
	S24-116 Internet-scale simulations of a peer selection algorithm <i>Ali Boudani, Yiping Chen, Gilles Straub, Gwendal Simon</i>		S5-36 QoS-constrained List Scheduling Heuristics for Parallel Applications on Grids <i>Nicola Tonello, Ranieri Baraglia, Renato Ferrini, Laura Ricci, Ramin Yahyapour</i>
3.30 p.m	Coffee Break		
4.00 p.m to 6.00 p.m	WIP SESSION Conferences Room Chairmen : K.E. Grosspietsch – K. Klöckner		