

**THE 2009 INTERNATIONAL CONFERENCE ON HIGH
PERFORMANCE COMPUTING & SIMULATION
(HPCS 2009)**

**In conjunction with The International Wireless Communications and Mobile
Computing Conference (IWCMC 2009)**

PRELIMINARY PROGRAM

**June 21 - 24, 2009
Leipzig, Germany**

(SUBJECT TO CHANGE)

**Co-Sponsored by IEEE Germany, ASIM, EUROSIM, CASS, JSST, LSS, PTSK,
TSS, and The University of Leipzig**



UNIVERSITÄT LEIPZIG

The 2009 International Conference on High Performance Computing & Simulation (HPCS 2009)

June 21 - 24, 2009
Leipzig, Germany

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Organizers: Luca Spalazzi and Ratan Kumar Guha

Dipartimento di Ingegneria Informatica, Gestionale e dell'Automazione
Università Politecnica delle Marche, Ancona, Italy;
School of Electrical Engineering and Computer Science,
University of Central Florida, Orlando, Florida, USA

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Akshai Aggarwal, University of Windsor, Canada
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Christian Toinard, LIFO, Université d'Orleans, France
Luis Javier Garcia Villalba, Universidad Complutense de Madrid, Spain
Zonghua Zhang, NICT, Japan

WORKSHOP ON ARCHITECTURE-AWARE SIMULATION AND COMPUTING (AASC 09)

Organizers: Michael Bader and Josef Weidendorfer

Institut für Informatik - Technische Universität München, Germany

AASC 09 Technical Program Committee:

Michael Bader, Technische Universität München, Germany
Arndt Bode, Technische Universität München, Germany
Hans-Joachim Bungartz, Technische Universität München, Germany
Rainer Keller, HLRS, Stuttgart, Germany
Stefan Lankes, RWTH Aachen, Germany
Josef Weidendorfer, Technische Universität München, Germany

**WORKSHOP ON DEPENDABLE MULTI-CORE COMPUTING
(DMCC 09)**

Organizer: Bernhard Fechner

FernUniversität in Hagen, Hagen, Germany

DMCC 09 Technical Program Committee:

Koen De Bosschere, University of Gent, Belgium
Jörg Keller, University of Hagen, Germany
Mirosław Malek, Humboldt University of Berlin, Germany
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Volkmar Sieh, University of Erlangen-Nuremberg, Germany
Peter Sobe, University of Lübeck, Germany
Sascha Uhrig, University of Augsburg, Germany
Osman Unsal, Barcelona Supercomputing Center, Spain

**WORKSHOP ON PARALLEL SATISFIABILITY SOLVING: SAT AND
BEYOND SAT, PARALLEL SOLVING ON NEW ARCHITECTURES
(WPSS 09)**

Organizers: Michael Krajecki, CReSTIC, Univ. de Reims Champagne-Ardenne, France
Gilles Dequen, MIS, Univ. Picardie Jules Verne, France
Lakhdar Sais, CRIL, Université d'Artois, France

WPSS 09 Technical Program Committee:

François Bodin, IRISA, Rennes, France
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Youssef Hamadi, Microsoft Research Cambridge, U.K.
Marijn Heule, TU Delft, The Netherlands
Bertrand Le Cun, Université de Versailles Saint-Quentin en Yvelines, France
Tobias Schubert, Albert-Ludwigs-University of Freiburg, Germany
Carsten Sinz, University of Karlsruhe, Germany
Peter Stuckey, University of Melbourne, Australia

**SPECIAL SESSION ON PATTERN ANALYSIS AND RECOGNITION
(PAR 09)**

Organizer: Ventseslav Valev, IAPR Fellow

Institute of Mathematics and Informatics
Bulgarian Academy of Sciences, Sofia, Bulgaria

PAR 09 Technical Program Committee:

Arnaldo Abrantes, High Institute of Engineering of Lisbon, Portugal
Asai Asaithambi, University of South Dakota, USA
Jan-Olof Eklundh, IAPR Fellow, Royal Institute of Technology, Sweden
Tin Kam Ho, IAPR Fellow, Bell Laboratories, USA
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Petia Radeva, Autonomous University of Barcelona, Spain
Bulent Sankur, Bosphorus University, Turkey
Jose Ruiz Shulcloper, Advanced Technologies Applications Center, Cuba
Patrick S. P. Wang, IAPR Fellow, Northeastern University, USA

HPCS 2009 ADDITIONAL REVIEWERS:

Diego Andrade, University of A Coruna, Spain
Catalin Ciobanu, Delft University of Technology, The Netherlands

Notes: HPCS 2009 tutorials are available to attendees free of charge.

Papers in the program with * are nominated by the Program and Awards Committees for the HPCS 2009 Best Paper Award. The winner will be announced at the conference.

| Sunday June 21st, 2009 | | | |
|---|--|---|---|
| 9:00 - 17:00 | Registration | | |
| 9:00 – 12:00 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%; vertical-align: top;"> <p>Tutorial I</p> <p>Market-Oriented Grid Computing and the Gridbus Middleware</p> <p>Rajkumar Buyya The University of Melbourne and Manjrasoft Melbourne, Australia</p> <p>SESSION CHAIR: Christophe Rosenberger LOCATION: Schiller 1</p> </td> <td style="text-align: center; width: 50%; vertical-align: top;"> <p>Tutorial II</p> <p>Toward Ubiquitous Healthcare Services</p> <p>Tarik Taleb NEC Europe Ltd. Heidelberg, Germany</p> <p>SESSION CHAIR: Mohsen Guizani LOCATION: Schiller 2</p> </td> </tr> </table> | <p>Tutorial I</p> <p>Market-Oriented Grid Computing and the Gridbus Middleware</p> <p>Rajkumar Buyya The University of Melbourne and Manjrasoft Melbourne, Australia</p> <p>SESSION CHAIR: Christophe Rosenberger LOCATION: Schiller 1</p> | <p>Tutorial II</p> <p>Toward Ubiquitous Healthcare Services</p> <p>Tarik Taleb NEC Europe Ltd. Heidelberg, Germany</p> <p>SESSION CHAIR: Mohsen Guizani LOCATION: Schiller 2</p> |
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| 12:00 – 13:30 | Lunch Break (.....) | | |
| 13:30 – 15:40 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%; vertical-align: top;"> <p>Tutorial III</p> <p>Parallel Hybrid Computing</p> <p>François Bodin CAPS Enterprise / IRISA France</p> <p>SESSION CHAIR: Sandro Fiore LOCATION: Schiller 1</p> </td> <td style="text-align: center; width: 50%; vertical-align: top;"> <p>Tutorial IV</p> <p>Mobility Modeling for Future Mobile Network Design and Simulation</p> <p>Ahmed Helmy University of Florida Gainesville, Florida, USA</p> <p>SESSION CHAIR: Mohsen Guizani LOCATION: Schiller 2</p> </td> </tr> </table> | <p>Tutorial III</p> <p>Parallel Hybrid Computing</p> <p>François Bodin CAPS Enterprise / IRISA France</p> <p>SESSION CHAIR: Sandro Fiore LOCATION: Schiller 1</p> | <p>Tutorial IV</p> <p>Mobility Modeling for Future Mobile Network Design and Simulation</p> <p>Ahmed Helmy University of Florida Gainesville, Florida, USA</p> <p>SESSION CHAIR: Mohsen Guizani LOCATION: Schiller 2</p> |
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| 15:40 – 16:00 | Coffee Break (.....) | | |
| 16:00 – 18:20 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%; vertical-align: top;"> <p>Tutorial V</p> <p>Hardware-aware Computing on Multicore Processors and Accelerators</p> <p>Rainer Buchty and Jan-Philipp Weiß Karlsruhe Institute of Technology Germany</p> <p>SESSION CHAIR: Carsten Trinitis LOCATION: Schiller 1</p> </td> <td style="text-align: center; width: 50%; vertical-align: top;"> <p>Tutorial VI</p> <p>Agents – Technology for the Mainstream?</p> <p>Volkmar Schau Friedrich Schiller University Jena Germany</p> <p>SESSION CHAIR: Francisco J. Monaco LOCATION: Schiller 2</p> </td> </tr> </table> | <p>Tutorial V</p> <p>Hardware-aware Computing on Multicore Processors and Accelerators</p> <p>Rainer Buchty and Jan-Philipp Weiß Karlsruhe Institute of Technology Germany</p> <p>SESSION CHAIR: Carsten Trinitis LOCATION: Schiller 1</p> | <p>Tutorial VI</p> <p>Agents – Technology for the Mainstream?</p> <p>Volkmar Schau Friedrich Schiller University Jena Germany</p> <p>SESSION CHAIR: Francisco J. Monaco LOCATION: Schiller 2</p> |
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| 18:20 – 18:30 | Wrap-up Location: Schiller |
| 19:00 – | Welcome Reception – Location: Mediencampus Villa Ida |

| Monday June 22nd, 2009 | | | | | |
|--|--|------------------------------------|--|------------------------------------|---|
| 7:30 - 17:00 | Registration | | | | |
| 7:30 - 8:00 | Speaker's Meet & Greet | | | | |
| 8:00 - 8:30 | Multi Conference Opening Session (Room: SCHILLER) | | | | |
| 8:30 - 10:00 | <p>Monday Multi Conference Keynote Speech TV Band Cognitive Radio Networks Gordon L. Stüber Georgia Tech Atlanta, Georgia, USA</p> <p>(Schiller) SESSION CHAIR: Mohsen Guizani</p> | | | | |
| 10:00 - 10:30 | Coffee Break (.....) | | | | |
| 10:30 - 12:30 | HPCS 2009 Presentation Sessions | | | | |
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center; vertical-align: top;"> 10:30-10:40 Room: Tschichold </td> <td style="text-align: center;"> HPCS 2009 Opening Remarks HPCS 2009 General Co-Chairs and Program Chair </td> </tr> <tr> <td style="text-align: center; vertical-align: top;"> 10:40-12:00 Room: Tschichold </td> <td style="text-align: center;"> <p>Monday HPCS 2009 Plenary Speech Trends and Challenges in Operating Systems – From Parallel Computing to Cloud Computing Andreas Polze Hasso-Plattner-Institute for Software Engineering University of Potsdam, Germany</p> SESSION CHAIR: Rajkumar Buyya </td> </tr> </table> | 10:30-10:40 Room: Tschichold | HPCS 2009 Opening Remarks HPCS 2009 General Co-Chairs and Program Chair | 10:40-12:00 Room: Tschichold | <p>Monday HPCS 2009 Plenary Speech Trends and Challenges in Operating Systems – From Parallel Computing to Cloud Computing Andreas Polze Hasso-Plattner-Institute for Software Engineering University of Potsdam, Germany</p> SESSION CHAIR: Rajkumar Buyya |
| 10:30-10:40 Room: Tschichold | HPCS 2009 Opening Remarks HPCS 2009 General Co-Chairs and Program Chair | | | | |
| 10:40-12:00 Room: Tschichold | <p>Monday HPCS 2009 Plenary Speech Trends and Challenges in Operating Systems – From Parallel Computing to Cloud Computing Andreas Polze Hasso-Plattner-Institute for Software Engineering University of Potsdam, Germany</p> SESSION CHAIR: Rajkumar Buyya | | | | |
| 12:00 - 12:30 Room: Tschichold | <p>HPCS 2009 Demo I The GReIC Data Access and Integration Service S. Fiore, A. Negro, S. Vadacca, G. Aloisio Euro-Mediterranean Centre for Climate Change (CMCC) Italy</p> SESSION CHAIR: Thomas Hering | | | | |
| 12:30 - 13:30 | Lunch Break (.....) | | | | |
| 13:30 - 15:40 | HPCS 2009 Presentation Sessions | | | | |

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| <p>13:30-15:40</p> <p>Room: Tschichold</p> | <p>S1: Workshop on Architecture-aware Simulation and Computing (AASC'09)</p> <p>WORKSHOP CHAIRS: Michael Bader and Josef Weidendorfer Technische Universität München, Germany</p> <p>1. Exploiting Memory Hierarchies in Scientific Computing <u>Michael Bader, Josef Weidendorfer</u> (Technische Universität München, Germany)</p> <p>*2. GPU Acceleration of an Unmodified Parallel Finite Element Navier-Stokes Solver <u>Dominik Göddeke</u>, Sven H.M. Buijssen, Hilmar Wobker, Stefan Turek (Angewandte Mathematik und Numerik, TU Dortmund, Germany)</p> <p>3. Comparing CUDA and OpenGL Implementations for a Jacobi Iteration Ronan Amorim, Rodrigo Weber dos Santos, <u>Gundolf Haase</u>, Manfred Liebmann (Universidade Federal de Juiz de Fora, Brazil, and Karl Franzens University of Graz, Austria)</p> <p>*4. Fast Seismic Modeling and Reverse Time Migration on a GPU Cluster <u>Rached Abdelkhalek</u>, Henri Calandra, Olivier Coulaud, Jean Roman, Guillaume Latu (TOTAL, Pau; INRIA - Talence; Strasbourg University & INRIA - Illkirch, France)</p> <p>5. Data Structure Design for GPU Based Heterogeneous Systems <u>Jens Breitbart</u> (University of Kassel, Germany)</p> <p>6. Bridging Processor Elements in Heterogeneous MPSoC: A Hardware Oriented Approach [<i>Removed from Program and Proceedings</i>] <u>Benaoumeur Senouci</u>, Mourad Bouache, Bernard Goossens (ELIAUS Laboratory, University of Perpignan, France)</p> |
| <p>15:40 – 16:00</p> | <p style="text-align: center;">Coffee Break (.....)</p> |
| <p>16:00 – 18:40</p> | <p style="text-align: center;">HPCS 2009 Presentation Sessions</p> |
| <p>16:00-18:10</p> <p>Room: Tschichold</p> | <p>S2: Workshop on Dependable Multi-Core Computing (DMCC'09)</p> <p>WORKSHOP CHAIR: Bernhard Fechner FernUniversität in Hagen, Germany</p> <p>1. Risks and Chances of Many-Core Processors <u>Sascha Uhrig</u> (University of Augsburg, Germany)</p> <p>2. A Compact Error Model for Reliable System Design <u>Adeel Israr</u>, Abdulhadi Shoufan, Sorin A. Huss (Technische Universität Darmstadt, Germany)</p> <p>3. Cross-Core Event Monitoring for Processor Failure Prediction Felix Salfner, <u>Peter Tröger</u>, and Steffen Tschirpke (Humboldt University Berlin, Germany)</p> <p>4. On Pinning Issues on Multicore Systems <u>Carsten Trinitis</u> (Technische Universität München, Germany)</p> |

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| | <p>5. Optimizing a Highly Fault Tolerant Software RAID for Many Core Systems Henning Klein, <u>Jörg Keller</u> (Fujitsu Technology Solutions GmbH, and FernUniversität in Hagen, Germany)</p> <p>6. RING-DATA ORDER: A New Cache Coherence Protocol for Ring-based Multicores <u>Jin Young Park</u>, and Lynn Choi (Samsung Electronics, Hwasung-City, and Korea University, South Korea)</p> |
| <p>18:10-18:40</p> <p>Room: Tschichold</p> | <p style="text-align: center;">HPCS 2009 Demo II</p> <p style="text-align: center;">Data Management for eScience at the Euro-Mediterranean Centre for Climate Change</p> <p style="text-align: center;">S. Fiore, A. Negro, S. Vadacca, G. Aloisio Euro-Mediterranean Centre for Climate Change (CMCC) Italy</p> <p>SESSION CHAIR: Srinivas Mukkamala</p> |
| 18:40 – 18:50 | Wrap-Up |
| 19:00 - 21:00 | Conference Dinner (Moritzbastei) |

| Tuesday June 23rd, 2009 | |
|---|--|
| 8:00 - 17:00 | Registration |
| 8:00 - 8:30 | Speaker's Meet & Greet |
| 8:30 - 10:00 | <p>Tuesday Multi Conference Keynote Speech</p> <p>Market-Oriented Cloud Computing: Vision, Hype, and Reality of Delivering Computing as the 5th Utility</p> <p>Rajkumar Buyya The University of Melbourne and Manjrasoft Melbourne, Australia</p> <p>(Schiller)</p> <p>SESSION CHAIR: Bogdan Franczyk</p> |
| 10:00 - 10:30 | Coffee Break (.....) |
| 10:30 - 12:30 | HPCS 2009 Presentation Sessions |
| 10:30 - 12:00 Room: Tschichold | <p>Tuesday HPCS 2009 Plenary Speech</p> <p>High Performance Computing and Stochastic Simulations for Life Sciences</p> <p>David Hill University Vice President & Director of the Inter-University Computing Center (CIRI) Blaise Pascal University France</p> <p>SESSION CHAIR: Mads Nygård</p> |
| 12:00 - 12:30 Room: Tschichold | <p>HPCS 2009 Demo III</p> <p>The LIBI Grid Problem Solving Environment for Bioinformatics</p> <p>M. Mirto¹, M. Passante¹, D. Tartarini¹, A. Negro², I. Epicoco^{1,2}, G. Aloisio^{1,2} ¹University of Salento ²Euro-Mediterranean Centre for Climate Change (CMCC) Italy</p> <p>SESSION CHAIR: P. Deepak</p> |
| 12:30 - 13:30 | Lunch Break (.....) |
| 13:30 - 15:40 | HPCS 2009 Presentation Sessions |

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| <p>13:30-14:10 Room: Tschichold</p> | <p>S3: Web Computing and Services</p> <p>SESSION CHAIR: Seiji Fujino</p> <p>1. A Novel QoS Modeling Approach for Soft Real-Time Systems with Performance Guarantees <u>Francisco J. Monaco</u>, Edwin L.C. Mamani, Michelle Nery, Pedro N. Nobile (University of Sao Paulo, Sao Carlos, Brazil)</p> <p>*2. A Self-Adapting Web Server Architecture: Towards Higher Performance and Better Utilization Frag Azzedin, <u>Khalid Al-Issa</u> (King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia)</p> |
| <p>14:10-14:55 Room: Tschichold</p> | <p>S4: Agents and Multi-Agent based Simulation</p> <p>SESSION CHAIR: Frag Azzedin</p> <p>1. Multi-Agent Traffic Simulation with CUDA <u>David Strippgen</u>, Kai Nagel (Transport Systems Planning and Transport Telematics (VSP), TU Berlin, Germany)</p> <p>*2. Predicting the Performance of Multi-Agent Based Simulation with Ethernet Switched Clusters <u>Pham Dang Hai</u> (Ecole Pratique des Hautes Etudes, Paris, France)</p> |
| <p>14:55-15:40 Room: Tschichold</p> | <p>S5: Grid Infrastructure, Algorithms, and Services</p> <p>SESSION CHAIR: Sascha Uhrig</p> <p>1. How to Use Multicast in Distributed Mutual Exclusion Algorithms for Grid File Systems <u>Aurélien Ortiz</u>, François Thiebolt, Jacques Jorda, Abdelaziz M'zoughi (IRIT, Université Paul Sabatier Toulouse III, France)</p> <p>2. A Service Oriented Utility Grid for Data Parallel Remote Sensing Applications <u>P. Deepak</u>, K. Pramod Kumar, Geeta Varadan (Advanced Data Processing Research Institute (ADRIN), Department of Space, Government of India, Hyderabad, India)</p> |
| <p>15:40 – 16:00</p> | <p style="text-align: center;">Coffee Break (.....)</p> |
| <p>16:00 – 17:25</p> | <p style="text-align: center;">HPCS 2009 Presentation Sessions</p> |
| <p>16:00-16:45 Room: Tschichold</p> | <p>S6: Transaction Processing and Large Scale Scientific Computing</p> <p>SESSION CHAIR: Marc Pasquet</p> <p>*1. The ACID Model Checker and Code Generator for Transaction Processing Anakreon Mentis, <u>Panagiotis Katsaros</u> (Aristotle University of Thessaloniki, Greece)</p> |

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| | <p>2. Parallelization of the Nearest-Neighbour Search and the Cross-Validation Error Evaluation for the Kernel Weighted k-nn Algorithm Applied to Large Data Sets in Matlab <u>Gines Rubio</u>, Alberto Guillen, Hector Pomares, Ignacio Rojas, Ben Paechter, Peter Glösekötter, C. I. Torres-Ceballos (University of Granada, Spain; Napier University, Edinburgh, U.K.; and University of Applied Sciences Muenster, Germany)</p> |
| <p>16:45-17:15 Room: Tschichold</p> | <p>S7: HPCS 2009 Poster Papers, Posters and Work in Progress Session (Partial)</p> <p>SESSION CHAIR: Raphael Kunis</p> <p>1. Simulation and Optimization of the IEEE 802.16 Single Carrier QPSK Radio Link <u>Kang Gao</u> and Zeng Chunnian (Politecnico di Torino, Italy and Wuhan University of Technology, China)</p> <p>2. Hybrid Intelligent System for Performance Analysis and Optimization <u>Lamia Djoudi</u>, Vasil Khachidze and William Jalby (University of Versailles Saint-Quentin, Versailles, France)</p> <p>3. Evaluation of Biometric Systems Mohamad El Abed, <u>Christophe Rosenberger</u> (GREYC Laboratory, ENSICAEN – Université de Caen Basse Normandie – CNRS, France)</p> <p>4. Detecting Hands, Fingers and Blobs for Multi-Touch Display Applications <u>Thiago de F. O. Araújo</u>, Antonio M.N. Lima, and Alessandro J.V. dos Santos (Universidade Federal de Campina Grande, and Instituto Nokia de Tecnologia – INdT, Brazil)</p> <p>5. ACID Sim Tools: Evaluating tradeoffs between recovery costs and performance in Distributed Transaction Processing Architectures Anakreon Mentis, <u>Panagiotis Katsaros</u>, Lefteris Angelis (Department of Informatics, Aristotle University of Thessaloniki, Greece)</p> <p>6. TBA TBA (TBA)</p> |
| <p>17:15-17:20</p> | <p style="text-align: center;">Wrap-Up</p> |
| <p>17:45 - 23:00</p> | <p style="text-align: center;">Social Event III Leipzig City Tour</p> |

| Wednesday June 24th, 2009 | |
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| 8:00 - 14:00 | Registration |
| 8:00 - 8:30 | Speaker's Meet & Greet |
| 8:30 – 10:00 | <p>Wednesday Multi Conference Keynote Speech</p> <p>Next Generation Mobile Networks: 3GPP Evolved Packet System and Femtocell Technologies</p> <p>Stefan Schmid NEC Europe Ltd. Heidelberg, Germany</p> <p>(Schiller)</p> <p>SESSION CHAIR: Mohsen Guizani</p> |
| 10:00 – 10:20 | Coffee Break (.....) |
| 10:20 – 12:00 | HPCS 2009 Presentation Sessions |
| 10:20-12:00 Room: Tschichold | <p>S8: Workshop on Parallel Satisfiability Solving: SAT and beyond SAT, Parallel Solving on New Architectures (WPSS'09)</p> <p>WORKSHOP CHAIRS: <u>Michael Krajecki</u>, CReSTIC, Univ. de Reims Champagne-Ardenne, France <u>Gilles Dequen</u>, MIS, Univ. Picardie Jules Verne, France <u>Lakhdar Sais</u>, CRIL, Université d'Artois, France</p> <p>1. Combining SAT Solvers On Discrete Resources <u>Yanik Ngoko</u>, Denis Trystram (University of Yaounde I, Cameroon and LIG – Grenoble University, France)</p> <p>2. Comparison of Knowledge Sharing Strategies in a Parallel QBF Solver Paolo Marin, Massimo Narizzano, Enrico Giunchiglia, <u>Matthew Lewis</u>, Tobias Schubert, Bernd Becker (Università di Genova, Italy and University of Freiburg, Germany)</p> <p>3. Concurrent-Distributed Programming Techniques for SAT Using DPLL-Stålmarck <u>Sripriya G.</u>, Alan Bundy, Alan Smaill (The University of Edinburgh, U.K.)</p> <p>4. Automatic Parallel SAT Solving Using MTSS <u>Pascal Vander-Swalmen</u>, Michaël Krajecki, Gilles Dequen (CReSTIC, University of Reims Champagne-Ardenne, and MIS, University of Picardie Jules Verne, France)</p> <p>*5. Parallel Preconditioning Technique based on AGM (Arithmetic-Geometric Mean) of Eigenvalues without Sequential Substitution Computation <u>Seiji Fujino</u>, Kazunori Somehara (Kyushu University, and Japan Electron Optics Ltd., Japan)</p> |

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| <p>12:00-12:30 Room: Tschichold</p> | <p style="text-align: center;">HPCS 2009 Demo IV</p> <p style="text-align: center;">Using Grids to Support Recommender Systems: A Case Study of Generating Movie Recommendations on the EELA-2 Infrastructure</p> <p style="text-align: center;">Leandro Neumann Ciuffo Istituto Nazionale di Fisica Nucleare (INFN) Italy</p> <p>SESSION CHAIR: K. Somasundaram</p> |
| <p>12:30 – 13:30</p> | <p style="text-align: center;">Lunch Break (.....)</p> |
| <p>13:30 – 19:45</p> | <p style="text-align: center;">HPCS 2009 Presentation Sessions</p> |
| <p>13:30-15:00 Room: Tschichold</p> | <p style="text-align: center;">HPCS 2009 Panel Session</p> <p style="text-align: center;">Cloud Computing: Opportunities and Challenges for HPC Applications</p> <p>Panel Moderator: Mads Nygård (Norwegian University of Science and Technology, Norway)</p> <p>Panelists: <i>Rajkumar Buyya</i>, The University of Melbourne and Manjrasoft, Australia <i>Ramin Yahyapour</i>, Dortmund University of Technology, Germany <i>François Bodin</i>, CAPS Enterprise and IRISA, Rennes, France</p> |
| <p>15:00 – 15:10</p> | <p style="text-align: center;">Short Coffee Break (.....)</p> |
| <p>15:10 – 17:00 Room: Tschichold</p> | <p>S9: Special Session on Pattern Analysis and Recognition (PAR'09)</p> <p>SESSION CHAIR: Ventzeslav Valev Bulgarian Academy of Sciences, Sofia, Bulgaria</p> <ol style="list-style-type: none"> 1. Resolution Mosaic EM Algorithm for Medical Image Segmentation <u>Mohammed A-Megeed Salem</u> and Beate Meffert (Ain Shams University, Cairo, Egypt, and Humboldt-Universitaet zu Berlin, Germany) 2. Improved Maritime Target Tracker using Colour Fusion <u>Paul Westall</u>, Peter O'Shea, Jason J. Ford, Stefan Hrabar (Queensland University of Technology and Commonwealth Scientific and Industrial Research Organisation, Brisbane, Australia) 3. Detecting Hands, Fingers and Blobs for Multi-Touch Display Applications <u>Thiago de F. O. Araújo</u>, Antonio M.N. Lima, and Alessandro J.V. dos Santos (Universidade Federal de Campina Grande, and Instituto Nokia de Tecnologia – INdT, Brazil) 4. Mobile Robot for Face Recognition: A Collaborative Environment <u>Pablo Rivas Perea</u>, Jose Gerardo Rosiles, Omar Velarde Anaya, Leonardo Valencia Olvera, Luis |

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| | <p>Humberto Uribe Chavira, Mario I. Chacon M. (The University of Texas at El Paso, USA; Nogales University of Technology, Mexico; and Chihuahua Institute of Technology, Mexico)</p> <p>5. A Pattern-Based Residual Vector Quantization (PBRVQ) Algorithm for Compressing Images <u>K. Somasundaram</u>, M. Mary Shanthi Rani (Gandhigram Rural University, India)</p> |
| <p>17:00-19:00 Room: Tschichold</p> | <p>S10: Workshop on Security and High Performance Computing Systems (SHPCS'09)</p> <p>WORKSHOP CHAIR: Luca Spalazzi Università Politecnica delle Marche, Ancona, Italy</p> <p>1. Trust Management in Pervasive and Service-Oriented Architectures <u>Ricardo Neisse</u> (Fraunhofer Institute for Experimental Software Engineering (IESE), Mannheim, Germany)</p> <p>2. Emerging Trends in Biometric Authentication <u>Christophe Rosenberger</u> (DREYC - Ecole Nationale Supérieure d'Ingénieurs de Caen (ENSICAEN), France)</p> <p>3. Video Steganalysis Using Spatial and Temporal Redundancies K. Kancharla, <u>Srinivas Mukkamala</u> (New Mexico Institute of Mining and Technology, New Mexico, USA)</p> <p>4. A New Approach to Enforce the Security Properties of a Clustered High-Interaction HoneyPot Jérémy Briffaut, Jonathan Rouzard-Cornabas, Christian Toinard, <u>Yacine Zemali</u> (LIFO and ENSI de Bourges, France)</p> <p>5. An Anomaly-Based System for Parental Control C. Cioffi, F. Pagliarecci, <u>L. Spalazzi</u> (Università Politecnica delle Marche, Ancona, Italy)</p> |
| <p>19:00-19:20 Room: Tschichold</p> | <p style="text-align: center;">HPCS 2009 Closing Session</p> <p style="text-align: center;">HPCS 2009 General Co-Chairs and Program Chair</p> |
| <p>19:20 – 19:45 Room Schiller</p> | <p style="text-align: center;">Multi Conference Closing Session</p> <p style="text-align: center;">Multi Conference 2009 General Co-Chairs and Co-Program Chairs</p> |

IMPORTANT NOTES:

- ◆ Most Presentations are scheduled for a maximum time of **20-25 minutes**, including Q&A.
- ◆ Presentations can be in electronic (Power Point) or overhead transparencies formats.
- ◆ There will be a laptop and an LCD as well as overhead projector available for all presenters in the conference rooms.
- ◆ **All presenters are requested** to upload their presentations upon arrival at the Registration Desk. There will be a laptop available for this purpose. Please have your presentation file named using session no. and paper code (**S-xx, C-yyyy**). You may bring your file on a CD or a USB flash stick.
- ◆ On each conference day, **presenters and sessions chairs** on that day are invited to **Speaker Meet & Greet** usually between 7:30 a.m. - 8:30 a.m. Attending this meeting is highly recommended. Please use this opportunity to meet each other and clarify/resolve any issues that you may have in preparation for the session. We hope that all sessions and presentations will go very smoothly.
- ◆ Exhibits will be held in **xxx**. Exhibits open Monday, June 22, 10:00 a.m. - 6:00 p.m., Tuesday, June 23, 10:00 a.m. - 6:00 p.m., and Wednesday, June 24, 10:00 a.m. - 4:00 p.m. Exhibits set-up, Sunday, June 21, 1:00 p.m. - 5:00 p.m. Tear-down is Wednesday, June 24, after 4:00 p.m.

Floor Plan:

