

THE 2008 HIGH PERFORMANCE COMPUTING & SIMULATION CONFERENCE (HPCS 2008)

**In conjunction with The 22nd EUROPEAN CONFERENCE ON MODELLING
AND SIMULATION (ECMS 2008)**

PROGRAM

**June 3 - 6, 2008
Nicosia, Cyprus**

(SUBJECT TO CHANGE)

**Co-Sponsored by SCS-Europe, IEEE Germany, ASIM, EUROSIM, CASS, JSST,
PTSK, TSS and In Cooperation with the IEEE Computer Society Technical
Committee on Parallel Processing (TCPP)**



The 2008 High Performance Computing & Simulation Conference (HPCS 2008)

June 3 - 6, 2008
Nicosia, Cyprus

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WORKSHOP ON SECURITY AND HIGH PERFORMANCE COMPUTING SYSTEMS (SHPCS 08)

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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Christian Toinard, LIFO, Université d'Orléans, France
Luis Javier Garcia Villalba, Universidad Complutense de Madrid, Spain
Zonghua Zhang, INRIA, IRCICA, Villeneuve d'Ascq, France

WORKSHOP ON OPTIMIZATION ISSUES IN GRID AND PARALLEL COMPUTING ENVIRONMENTS (OPTIM 08)

Organizers: Pascal Bouvry, Girma Berhe, Bernabé Dorronsoro, Sébastien Varrette
University of Luxembourg, Luxembourg

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El-Ghazali Talbi, INRIA-Futurs, Lille, France
Nikos Vlassis, Technical University of Crete, Greece
Albert Y. Zomaya, University of Sydney, Australia

SPECIAL SESSION ON WEB SERVICES AND THE SEMANTIC GRID (WSSG 2008)

Organizer: Taha Osman
School of Computing & Informatics
Nottingham Trent University, Nottingham, U.K.

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Gerald Schaefer, Aston University, UK
Vlad Tanasescu, Knowledge Media Institute (KMi), Open University, UK

SPECIAL SESSION ON PATTERN ANALYSIS AND RECOGNITION (PAR 08)

Organizer: Ventzeslav Valev, IAPR Fellow
Institute of Mathematics and Informatics
Bulgarian Academy of Sciences, Sofia, Bulgaria

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Bulent Sankur, Bogazici University, Turkey
Jose Ruiz Shulcloper, Advanced Technologies Applications Center, Cuba

HPCS 2008 ADDITIONAL REVIEWERS:

Mike McMahon, University of Nevada, Reno, Nevada, USA

Notes: HPCS 2008 tutorials are available to attendees free of charge.

Papers in the program with * are nominated by the Awards Committee for the HPCS 2008 Best Paper Award. The winner will be announced at the conference.

Tuesday June 3rd, 2008

<p>13:30 – 15:30 Room 146 Faculty of Sciences (FST-01)</p>	<p>Tutorial I</p>	<p>Tutorial I</p> <p>Grid Database Access, Management and Integration</p> <p>Sandro Fiore and Salvatore Vadacca Euro-Mediterranean Centre for Climate Change (CMCC) and SPACI Consortium Lecce, Italy</p> <p>SESSION CHAIR: Prof. Mads Nygård LOCATION: Room 146 FST-01</p>
<p>14:00 - 17:00</p>	<p>Registration</p>	
<p>15:30 – 15:45</p>	<p>Coffee Break (Pre-function Area)</p>	
<p>15:45 – 17:55 Room 146 Faculty of Sciences (FST-01)</p>	<p>Tutorial II</p>	<p>Tutorial II</p> <p>Building Shared High Performance Computing Infrastructure for the Biomedical Sciences: Learnings from Biomed HPC 2007</p> <p>Marcos Athanasoulis Dr.PH and Florence Reinisch MPH Harvard Medical School Boston, Massachusetts, USA</p> <p>SESSION CHAIR: Prof. Hassan Diab LOCATION: Room 146 FST-01</p>
<p>18:30 – 21:00</p>	<p>Welcome Party Location: University of Cyprus - Main Campus (75 Kallipoleos Str.)</p>	

Wednesday June 4th, 2008		
8:45 – 9:15	Multi Conference Opening Session (Room B108-Amphitheater, University House - Anastasios G. Lenentis Building)	
9:15 – 10:15	ECMS Multi Conference Keynote Speech I Multicore Grids and the Data Deluge Prof. Geoffrey C. Fox Professor of Computer Science, Informatics, Physics Pervasive Technology Laboratories Indiana University, USA (Room B108-Amphitheater, University House - Anastasios G. Lenentis Building)	
10:15 – 10:45	Coffee Break (Pre-function Area)	
10:45 – 12:30	HPCS 2008 Presentation Sessions	
10:45-11:00 Room 146 Faculty of Sciences (FST-01)	HPCS 2008 Opening Remarks General Co-Chairs and Program Chair	
11:00-12:30 Room 146 Faculty of Sciences (FST-01)	HPCS 2008 Plenary Speech e-Science Applications on Grids – The DEISA Success Story Prof. Wolfgang Gentzsch DEISA, Duke University, RENCI Renaissance Computing Institute at UNC Chapel Hill, USA SESSION CHAIR: Prof. A. Bargiela	
12:30 – 14:00	Lunch Break (University House Main Floor - Anastasios G. Lenentis Building)	
14:00 – 15:40	HPCS 2008 Presentation Sessions	
14:00-15:40	S1A: Parallelization of Simulation and HPC Application SESSION CHAIR: Prof. N. Kafri LOCATION: Room 147, FST-01 *1. Comparison of Spatial Data Structures in OpenMP-Parallelized Steering Alexander Wirz, Björn Knafla, <u>Claudia Leopold</u> (Universitt Kassel, GERMANY)	S1B: Architectural and Organizational Infrastructure for HPC Systems SESSION CHAIR: Dr. M. Pasquet LOCATION: Room 146, FST-01 *1. Parallel Clustering And Dimensional Scaling On Multicore Systems <u>Geoffrey Fox</u> , Xiaohong Qiu, Huapeng Yuan, Seung-Hee Bae, George Chrysanthakopoulos, Henrik Frystyk Nielsen (Indiana University, Indiana, USA)

	<p>2. Transaction-Oriented Simulation in Ad Hoc Grids: Design and Experience <u>Gerald Krafft</u>, Vladimir Getov (University of Westminster, Harrow, U.K.)</p> <p>3. Automatic Development of High Performance Multi-Physics Simulators <u>Felix Santos</u>, Eduardo R. R. Brito Jr., Jos Maria B. Silva (Federal University of Pernambuco, Recife, BRAZIL)</p> <p>4. Distributed Real-Time Railway Simulator <u>Camelia Avram</u>, Mihai Hulea, Tiberiu Letia, Dana Muresan, Sergiu Radu (Technical University of Cluj Napoca, ROMANIA)</p>	<p>*2. Practical Precise Evaluation of Cache Effects on Low Level Embedded VLIW Computing <u>Samir Ammenouche</u>, Sid Ahmed, Ali Touati, William Jalby (University of Versailles St-Quentin en Yvelines, FRANCE)</p> <p>3. Non-Linear Seek Distance For Optimal Accuracy Of Zoned Disks Seek Time In Multi-RAID Storage Systems <u>Soraya Zertal</u>, Peter Harrison (PRI SM laboratory-University of Versailles, Versailles, FRANCE)</p> <p>4. VIRCONEL: A New Emulation Environment for Experiments with Networked IT Systems <u>Yacine Benchaib</u>, Artur Hecker (TELECOM ParisTech – ENST, Paris, FRANCE)</p>
15:40 – 16:10	Coffee Break (Pre-function Area)	
16:10 – 18:00	HPCS 2008 Presentation Sessions	
16:10-17:05	<p>S2A: Resource Allocation, Sharing and Management in HPC Systems SESSION CHAIR: Dr. C. Leopold LOCATION: Room 146, FST-01</p> <p>*1. Resource Sharing Usage Aware Resource Selection Policies for Backfilling Strategies <u>Francesc Guim Bernat</u>, (Barcelona Supercomputing Center, Barcelona, SPAIN)</p> <p>2. Energy Efficient Real Time Scheduling of Dependent Tasks Sharing Resources <u>Abdullah Elewi</u>, H. A. Awadalla, and M. I. Eladawey (Helwan University, Cairo, EGYPT)</p>	<p>S2B: Databases in Grid and High Performance Computing Environments SESSION CHAIR: Dr. S. Fiore LOCATION: Room 147, FST-01</p> <p>1. Grid Database Management: Issues, Requirements and Future Directions <u>Sandro Fiore</u>, <u>Salvatore Vadacca</u>, Alessandro Negro and Giovanni Aloisio (University of Salento & SPACI Consortium, Lecce, ITALY)</p> <p>2. Representing Uncertainty In Spatial Databases Erlend Tøssebro, <u>Mads Nygård</u> (University of Stavanger and the Norwegian University of Science and Technology, NORWAY)</p>
17:05-18:00	<p>S3A: Partitioning and Scheduling Schemes for Grid and Cluster Systems SESSION CHAIR: Dr. M. Nakechbandi LOCATION: Room 146, FST-01</p> <p>1. Scheduling Strategies in Federated Grids <u>Katia Leal</u>, Eduardo Huedo, Rubn S. Montero, Ignacio M. Llorente (Rey Juan Carlos University, Madrid, SPAIN)</p>	<p>S3B: Code Generation, Libraries and Programming Environments SESSION CHAIR: Dr. C. Trinitis LOCATION: Room 147, FST-01</p> <p>1. OpenMP Code Generation Based on a Model Driven Engineering Approach <u>Julien Taillard</u>, Frdric Guyomarc'h, Jean-Luc Dekeyser (INRIA Lille Nord Europe, FRANCE)</p>

	<p>2. Simple Near Optimal Partitioning Approach to Perfect Triangular Iteration <u>Nedal Kafri</u>, Jawad Abu Sbeih (Alquds University, Abu Deis, Jerusalem, WEST BANK)</p>	<p>*2. Analytical Matrix Inversion and Code Generation for Labeling Flow Network Problems <u>Michael Weitzel</u>, Roland Reichardt, Wolfgang Wiechert (University of Siegen, GERMANY)</p>
18:00 – -	Wrap-Up	
19:00 – 21:00	Social Event I: Old Lefkosa guided tour	

Thursday June 5th, 2008

9:00 – 10:00	<p>ECMS Multi Conference Keynote Speech II</p> <p>Development of Simulation Software for Simple ODE Modelling to Structural Dynamic Systems</p> <p>Prof. Felix Breitenecker Professor of Institute for Analysis and Scientific Computing Technical University of Vienna Austria</p> <p>(Room B108-Amphitheater, University House - Anastasios G. Lenentis Building)</p>	
10:00 – 10:30	<p>Coffee Break (Pre-function Area)</p>	
10:30 – 12:30	<p>Presentation Sessions</p>	
10:30-12:30	<p>S4A: Workshop on Security and High Performance Computing Systems (SHPCS'08)</p> <p>SESSION CHAIR: Dr. Luca Spalazzi LOCATION: Room 146, FST-01</p> <ol style="list-style-type: none"> 1. Correlation of System Events: High Performance Classification of SELinux Activities and Scenarios Jonathan Rouzaud-Cornabas, Patrice Clemente, <u>Christian Toinard</u> (University of Orléans, FRANCE) 2. Cooperative Intrusion Detection System (CIDS) in Grid Environment on Unlabelled Data <u>Witcha Chimphlee</u>, Abdul Samad bin Haji Ismail (FSKSM-Universiti Teknologi MALAYSIA) 3. An IDS for Web Applications Angelo Biscotti, <u>Egidio Cardinale</u>, Gianluca Capuzzi, Luca Spalazzi (Università Politecnica delle Marche, ITALY) 4. Efficient Virus Detection Using Dynamic Instruction Sequences <u>Ratan K. Guha</u> (University of Central Florida, USA) 5. MIAT-WM5: Forensic Acquisition for Windows Mobile PocketPC <u>Fabio Dellutri</u>, Vittorio Ottaviani, Gianluigi Me (University of Rome "Tor Vergata", ITALY) 	<p>S4B: Special Session on Web Services and the Semantic Grid (WSSG'08)</p> <p>SESSION CHAIR: Dr. Taha Osman LOCATION: Room 147, FST-01</p> <ol style="list-style-type: none"> 1. Access Control of Web Services Using Genetic Algorithms <u>Nabila Semmache</u> and Sadika Selka (USTO, University of Science and Technology, ALGERIA) 2. Enabling Collaboration in the Semantic Grid: Survey of Web service Composition Approaches <u>Taha Osman</u> and Dhavalkumar Thakker (Nottingham Trent University, U.K.)
		<p>S5B: Special Session on Pattern Analysis and Recognition (PAR'08)</p> <p>SESSION CHAIR: Dr. Felix Santos LOCATION: Room 147, FST-01</p> <ol style="list-style-type: none"> 1. Texture and Morphological Analysis of Ultrasound Images of the Carotid Plaque for the Assessment of Stroke (Invited Presentation) <u>Costas Pattichis</u> (University of Cyprus, Nicosia, CYPRUS) 2. Further Optimizations for the Chan-Vese Active Contour Model <u>Zygmunt L. Szpak</u>, Jules R. Tapamo (University of Kwazulu-Natal, Durban, REPUBLIC OF SOUTH AFRICA)

		<p>*3. Robust Recognition of Checkerboard Pattern for Deformable Surface Matching in Multiple Views <u>Weibin Sun</u>, Xubo Yang, Shuangjiu Xiao, Wencong Hu (Shanghai Jiao Tong University, Shanghai, CHINA)</p>
12:30 – 14:00	<p>Lunch Break (University House Main Floor - Anastasios G. Lenentis Building)</p>	
14:00 – 15:40	<p>Presentation Sessions</p>	
14:00-15:40	<p>S6A: Workshop on Security and High Performance Computing Systems (SHPCS'08)</p> <p>SESSION CHAIR: Dr. Ratan Guha LOCATION: Room 146, FST-01</p> <ol style="list-style-type: none"> Ubiquitous Intrusion Detection (Invented Presentation) <u>Françoise Sailhan</u> (LIFC, University of Franche Comté, Besançon, France) A Proposal For Securing A Large-Scale High-Interaction Honeypot Jeremy Briffaut, Jean-Francois Lalande, <u>Christian Toinard</u> (Laboratoire d'Informatique Fondamentale d'Orléans (LIFO), FRANCE) Identity Based DRM System with Total Anonymity and Device Flexibility Using IBES Sharath Palavalli, Srinivas U S, <u>Alwyn Roshan Pais</u> (National Institute of Technology-Karnataka, INDIA) Requirements and Initial Design of a Grid Pseudonymity System Joni Hahkala, <u>Henri Mikkonen</u>, Mika Silander, John White (Helsinki Institute of Physics, SWITZERLAND) SOPAS: A Low-cost and Secure Solution For E-Commerce <u>Marc Pasquet</u>, Delphine Vacquez, Christophe Rosenberger (ENSICAEN - Université de Caen – CNRS, FRANCE) 	<p>S6B: Workshop on Optimization Issues in Grid and Parallel Computing Environments (Optim'08)</p> <p>SESSION CHAIR: Dr. Pascal Bouvry LOCATION: Room 147, FST-01</p> <ol style="list-style-type: none"> Energy Minimization-based Cross-layer Design in Multi-hop TDMA Networks <u>Le Thi Hoai An</u>, Nguyen Quang Thuan, Phan Tran Khoa, Pham Dinh Tao, (Paul Verlaine Metz University, Metz, FRANCE, University of Alberta, Edmonton, AB, CANADA, LMOOR/ INSA, Rouen, FRANCE) Evaluation of Different Optimization Techniques in the Design of Ad Hoc Injection Networks <u>B. Dorransoro</u>, G. Danoy, P. Bouvry, E. Alba, (University of Luxembourg, LUXEMBOURG, ETSI, University of Málaga, SPAIN) BODYF - A Parameterless Broadcasting Protocol Over Dynamic Forests <u>P. Ruiz</u>, D. Khadraoui, A. Andronache, B. Dorransoro, P. Bouvry, L. Tardón (CITI/CRP Henry Tudor, LUXEMBOURG, University of Luxembourg, LUXEMBOURG, University of Málaga, SPAIN) Optimizing Distributed Collaborative Filtering in Mobile Networks <u>Patrick Gratz</u> and Adrian Andronache (University of Luxembourg, LUXEMBOURG) Building a Practical Event-Scheduler for a Multi-Processor Architecture <u>Sean Rooney</u>, Daniel Bauer and Luis GarcÈs-Erice (IBM Research, Zurich Research Laboratory, SWITZERLAND)

15:40 – 16:10	Coffee Break (Pre-function Area)	
16:10 – 19:10	Presentation Sessions	
16:10-17:10	<p>S7A: Workshop on Security and High Performance Computing Systems (SHPCS'08)</p> <p>SESSION CHAIR: Dr. Luca Spalazzi LOCATION: Room 146, FST-01</p> <p>1. Depicting Social Trust in a Digital World (Invited Presentation) <u>Ioanna Dionysiou</u> (University of Nicosia, CYPRUS)</p> <p>2. Performance of Security Mechanisms in Wireless Ad hoc Networks <u>Matthias Becker</u>, Sven Schaust, Martin Drozda (University Hannover, GERMANY)</p> <p>3. Efficient Tiny Hardware Cipher Under Verilog Issam Damaj, Samer Hamade, and <u>Hassan Diab</u> (Dhofar University, Salalah, OMAN and American University of Beirut, Beirut, LEBANON)</p>	<p>S7B: Workshop on Optimization Issues in Grid and Parallel Computing Environments (Optim'08)</p> <p>SESSION CHAIR: Dr. Pascal Bouvry LOCATION: Room 147, FST-01</p> <p>1. Detecting Protocol Errors Using Particle Swarm Optimization with Java Pathfinder Marco Ferreira, Francisco Chicano, Enrique Alba, Juan Gomez-Pulido (Instituto Politecnico de Leiria, PORTUGAL, E.T.S. Ingenier ´ıa Informatica, University of M´alaga, SPAIN, University of Extremadura, Polytechnic Institute, SPAIN)</p> <p>2. An Algorithm and Some Numerical Experiments for the Scheduling of Tasks with Fault-Tolerancy Constraints on Heterogeneous Systems <u>M. Nakechbandi</u>, J.-Y. Colin (LITIS, Universit´e du Havre, FRANCE)</p> <p>3. Structure and Latency Analyses for High Performance Computing System Based on Asynchronous Optical Packet Switching <u>Zhao Jun</u>; Sun Xiaohan (Southeast University, Nanjing, CHINA)</p>
17:10-19:10	Tutorial III	<p style="text-align: center;">Tutorial III</p> <p style="text-align: center;">Using Multicore Chips for Scientific Computing</p> <p style="text-align: center;">Geoffrey C. Fox Professor of Computer Science, Informatics, Physics Pervasive Technology Laboratories Indiana University - Bloomington Indiana, USA</p> <p style="text-align: center;">SESSION CHAIR: Prof. C. Toinard LOCATION: Room 146, FST-01</p>
19:10 – -	Wrap-Up	
20:00 - 23:00	<p>Conference Dinner at Ayia Anna Village (one of only ten traditional Tavernas of the island according to the Cyprus Tourism Association guide)</p>	

Friday June 6th, 2008	
9:00 – 10:00	<p>ECMS Multi Conference Keynote Speech III</p> <p>Performance Modelling and Evaluation: Where Are the Risks?</p> <p>Prof. Raymond Marie IRISA/INRIA Rennes France</p> <p>(Room B108-Amphitheater, University House - Anastasios G. Lenentis Building)</p>
10:00 – 10:30	<p>Coffee Break (Pre-function Area)</p>
10:30 – 12:45	<p>Presentation Sessions</p>
10:30-11:15	<p>S8: HPCS 2008 POSTER and Work in Progress Session (Partial List)</p> <p>SESSION CHAIR: Drs. S. Zertal and C. Avram LOCATION: Open Area outside Room B108-Amphitheater, University House - Anastasios G. Lenentis Building</p> <ol style="list-style-type: none"> 1. Massively Parallel Simulations Of Astrophysical Plasmas <u>Bruno Thooris</u>, E. Audit, A. S. Brun, Y. Fidaali, F. Masset, D. Pomarède, R. Teyssier (CEA/IRFU Saclay, Gif/Yvette Cedex FRANCE) 2. Application of Novel Technique In Ripemd-160 Hash Function Aiming At High-Throughput <u>Harris Michail</u>, V. Thanasoulis, D. Scinianakis, G. Panagiotakopoulos and C. Goutis (University Of Patras, Achaia, GREECE) 3. Communication Cost of Matrix Product on Super-Hypercube Architectures <u>Maryam Amiripour</u>, Hamid Abachi (Department of ECSE, Monash University, AUSTRALIA) 4. GRelC DAIS: towards Data Access and P2P Integration in gLite-based Production Grids <u>Sandro Fiore</u> and <u>Salvatore Vadacca</u> (University of Salento & Euro-Mediterranean Centre for Climate Change (CMCC), ITALY) 5. SOPAS: A Low-Cost and Secure Solution for E-Commerce <u>Marc Pasquet</u>, Delphine Vacquez, Christophe Rosenberger (Laboratoire GREYC: ENSICAEN – Université de CAEN – CNRS, FRANCE) 6. A Proposal for Securing a Large-Scale High-Interaction Honeypot Jérémy Briffaut, Jean-François Lalande, <u>Christian Toinard</u> (Security and Distributed Systems (SDS) Team, LIFO, University of Orléans, FRANCE) 7. A Service Based Architecture for a Sensors Data Integrating System to Support Emergency Management Using Grid based Infrastructure <u>Waleed W. Smari</u> and Enrico Tosti (Universita' Politecnica delle Marche, Ancona, ITALY and University of Dayton, Ohio, USA)

		8. TBA TBA (TBA)
	11:15 - 12:30	<p style="text-align: center;">HPCS 2008 Panel (Room 146, FST-01)</p> <p style="text-align: center;">Challenges Facing Modelling and Simulation in HPC Environments</p> <p>Panel Moderator: Dr. Waleed W. Smari (University of Dayton, Ohio, USA)</p> <p>Panelists: <i>Dr. Hamid Abachi</i>, Monash University, Australia <i>Dr. Pascal Bouvry</i>, Luxembourg University, Luxembourg <i>Dr. Geoffrey Fox</i>, Indiana University, USA <i>Dr. Carsten Trinitis</i>, University Technische Universität München, Germany</p>
	12:30 – 12:45	<p style="text-align: center;">HPCS 2008 Closing Session (Room 146, FST-01)</p> <p style="text-align: center;">HPCS 2008 General Co-Chairs and Program Chair</p>
12:45 – 13:15		<p style="text-align: center;">Multi Conference Closing Session (Room B108-Amphitheater, University House - Anastasios G. Lenentis Building)</p> <p style="text-align: center;">Multi Conference 2008 General Co-Chairs and Co-Program Chairs</p>
13:15 – 14:30		<p style="text-align: center;">Lunch Break (University House Main Floor - Anastasios G. Lenentis Building)</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. (**HPCS-S-xx**). You may bring your file on a CD or a USB flash stick.
- ◆ Session chairs and respective presenters should meet as early as possible prior to the session to introduce themselves and coordinate their work.