

Wednesday, 11 February 2004					
8:45	<i>Registration</i>				
9:30	<b>Welcome Address</b>				
9:45	<b>Invited talk</b> <b>Optimization Techniques for Irregular and Pointer-based Programs</b> <b>Emilio Zapata</b> <i>Chair: Paolo Cremonesi</i>				
10:45	<b>Coffee Break</b>				
11:15	<b>Short contributions:</b> <b>Distributed and Grid Systems</b> <i>Chair: Patricia González</i>	Adaptive Distributed Execution of Java Applications B. Tousrel (F), V. Felea (F)	<b>Short contributions:</b> <b>Parallel Systems and Applications</b> <i>Chair: Gamal Attiya</i>		
11:30		Dynamically Scaling System Area Networks D. Avresky (USA), M. Marinov (USA), Y. Varoglu (USA)			
11:45		Experiences on Adaptive Grid Scheduling of Parameter Sweep Applications E. H. Cuesta (E), I. M. Llorente (E), R. S. Montero (E)			
12:00		Software Design Concepts of a Distributed Simulation Kernel B. I. Kumova (UK)			
12:15		Terminal-aware Grid resource and service discovery and B. Di Martino (I), N. Mazzocca (I), R. Aversa (I), S. Venticinque (I)			
12:30		<i>Lunch</i>			
14:30	<b>Distributed Systems 1</b> <i>Chair: Kaisar Amin</i>	An Approach to Massively Distributed Aggregate Computing on Peer-to-Peer Networks M. Jelasity (I), M. van Steen (NL), W. Kowalczyk (NL)			
15:00		RDMA Control Support for Fine-Grain Parallel Computations A. Smyk (PL), M. Tudruj (PL)			
15:30		Adaptive task farm implementation strategies M. Danelutto (I)			
16:00		<b>Coffee Break</b>			
16:30	<b>Special Session on "Web Computing"</b> <i>Chair: Konrad Kloeckner</i>	Collaborative Learning Patterns: Assisting the Development of component-based CSCL Applications A. Martínez (E), F. J. Álvarez (E), J. I. Asensio (E), M. Heredia (E), Y. A. Dimitriadis (E)			
17:00		Design, Specification, and Implementation of a Distributed Virtual Community System T. Gross (A)			
17:30		Study of communication in a Multi-Agent System in a Collaborative Learning Scenarios A. R. Alvarez (E), E. S. Vila (E), M. Lama Penin (E), R. Amorim (E), X. A. Vila Sobrino (E)			
18:00		Web services for Groupware in Distributed and Mobile Collaboration S. Dustdar (A)			
19:30		Departure of the conference bus to the Town Hall			
20:00	Visit to the Town Hall & Welcome cocktail				
21:00	Departure of the conference bus back to the "AC Hotel"				

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**Thursday, 12 February 2004**

9:00	<b>Invited talk</b> <i>Supercomputing Technology Trends</i> <b>Djordje Maric</b> <i>Chair: Leszek Borzemski</i>			
10:00	<b>Coffee Break</b>			
10:30	<b>Advanced Applications</b> <i>Chair: Wojciek Kowalczyk</i>	Multiprocessing of the time domain analysis of thin-wire antennas and scatterers A. Rubio Bretones (E), E. M. Garzón (E), I. García (E), S. Tabik (E)	<b>Models and Tools</b> <i>Chair: Anand Sivasubramaniam</i>	Empirical Characterization of the Latency of Long Asynchronous Pipelines with Data-Dependent Module Delays J. I. Hidalgo (E), J. Lanchares (E), J. M. Colmenar (E), O. Garnica (E), S.
11:00		Parallel Heuristic Search in Multilevel Graph Partitioning C. Gil (E), F. G. Montoya (E), J. Ortega (E), R. Baños (E)		Simulation Methodology for Decision Support Workloads J. A. G. Monasterio (E), L. A. Amigo Navarro (E), V. Puente Varona (E)
11:30		Parallelization and Comparison of Iterative Reconstruction Algorithms in Three-Dimensional Electron Microscopy I. Garcia (E), J. J. Fernandez (E), J. M. Carazo (E), J. R. Bilbao-Castro		Strongly Consistent Global State Detection for On-line Control of Distributed Applications J. Borkowski (PL)
12:00		Time Series Forecasting based on Parallel Neural Networks C. G. Puntonet (E), J. M. Górriz (E), J. Ortega (E), M. Aldasht (E), M. Salmerón (E)		Workflow Principles Applied to Multi-Solution Analysis of Dependable Distributed Systems F. Moscato (I), N. Mazzocca (I), V. Vittorini (I)
12:30	<b>Lunch</b>			
14:30	<b>Grid and Heterogeneous Environments</b> <i>Chair: Salvatore Veriticinque</i>	Abstracting the Grid G. von Laszewski (USA), K. Amin (USA), M. Hategan (USA), N. Zaluzec (USA)		
15:00		Parallelization of a Neural Net training program in a Grid environment A. Gutierrez (E), F. Cavero (E), R. Menendez (E)		
15:30		The Master-Slave Paradigm on Heterogeneous Systems: A Dynamic Programming Approach for the Optimal Mapping D. González (E), F. Almeida (E), L. M. Moreno (E)		
16:00		<b>Coffee Break</b>		
16:30	<b>Grid and Global Computing</b> <i>Chair: Marco Danielutto</i>	Exporting processing power of home embedded devices to Global Computing applications D. Lioupis (GR), D. Psihogiou (GR), M. Stefanidakis (GR)	<b>Languages, Compilers and Runtime Support Systems</b> <i>Chair: Juan Touriño</i>	Cooperative software multithreading to enhance utilization of embedded processor cores for network applications A. Döring (CH), C. Albrecht (D), R. Hagenau (D)
17:00		Optimal number of nodes for computation in grid environments F. Granata (I), G. Casale (I), L. Muttoni (I), S. Zanero (I)		Improving Cache Locality with Blocked Array Layouts E. Athanasaki (GR), N. Koziris (GR)
17:30		Performance Evaluation on Grids: Directions, Issues and Open Problems G. Gombas (H), Z. Balaton (H), Z. Nemeth (H)		SBASCO: Skeleton-based Scientific Components B. Rubio (E), E. Soler (E), J. M. Troya (E), M. Díaz (E)
18:00	<b>Parallel Computer Systems</b> <i>Chair: Margarita Amor</i>	Minimizing the Load Redistribution Cost in Cluster Architectures F. F. Rivera (E), I. Pardines (E)		
18:30		On the Performance of the POSIX I/O Interface to PVFS A. Sivasubramaniam (USA), M. Vilayannur (USA), P. H. Carns (USA), R. B. Ross (USA), R. Thakur (USA)		
19:00		Optimizing Bus Energy Consumption of On-Chip Multiprocessors Using Frequent Values A. Sivasubramaniam (USA), C. Liu (USA), M. Kandemir (USA)		
20:30	Departure of the conference bus to the "Playa Club Restaurant"			
21:00	Conference Dinner at "Playa Club Restaurant"			
	Departure of the conference bus back to the "AC Hotel"			

**Friday, 13 February 2004**

9:00	<b>Invited talk</b> <b>The impact of Morphware on Parallel Processing</b> <i>Reiner Hartenstein</i> <i>Chair: Pietro Manzoni</i>				
10:00	<b>Coffee Break</b>				
10:30	<b>Distributed Systems 2</b> <i>Chair: Ahmad Chadi Aljundi</i>	Group mobility impact over TCP and CBR traffic in Mobile Ad Hoc Networks J. C. Cano (E), P. Manzoni (E)	<b>Performance Analysis</b> <i>Chair: Ramon Doallo</i>	A Library for Load Balancing in Master/Slave Applications on a LAN-WLAN Environment Á. Suárez (E), D. Sánchez (E), E. M. Macías (E)	
11:00		Atomic Page Update Methods for OpenMP-Aware Software DSM J. S. Kim (ROK), S. Ha (ROK), Y. S.k Kee (ROK)		Fast and Exact Dependence Analysis in a Multimedia Vectorizing Compiler P. Bulic (SLO), V. Gustin (SLO)	
11:30		From Session Causality to Causal Consistency C. Sobaniec (PL), D. Wawrzyniak (PL), J. Brzezinski (PL)		Performance Prediction Using an Application-Oriented Mapping Tool A. Ripoll (E), C. Roig (E), E. Luque (E), F. Guirado (E)	
12:00		Remote Management of Distributed Components E. Martel-Jordán (E), F. Guerra-Santana (E), J. Miranda-González (E), L. Hernández (E)		Static Task Scheduling Heuristic for Homogeneous Computing Environments J. Janecek (CZ), T. Hagras (CZ)	
12:30		<b>Lunch</b>			
14:30	<b>Network-based and Internet-based Computing 1</b> <i>Chair: Schahram Dustdar</i>	Jace : A Java environment for distributed asynchronous iterative computations J. Bahi (F), K. Mazouzi (F), S. Domas (F)			
15:00		Making Community Work Aware K. Klöckner (D), S. Kolvenbach (D), W. Gräther (D)			
15:30		Scheduling tasks sharing files on heterogeneous clusters A. Giersch (F), F. Vivien (F), Y. Robert (F)			
16:00		<b>Coffee Break</b>			
16:30	<b>Network-based and Internet-based Computing 2</b> <i>Chair: Zsolt Németh</i>	Efficient Monitoring to Detect Wireless Channel Failures for MPI Programs A. Suárez (E), E. M. Macias (E), V. Sunderam (USA)	<b>Performance and Optimization</b> <i>Chair: Carsten Albrecht</i>	A flexible and tunable route discovery mechanism for on-demand protocols C. T. Calafate (E), M. Pérez Malumbres (E), P. Manzoni (E)	
17:00		Xweb: A Framework for Application Network Deployment in a Programmable Internet Service Infrastructure L. Navarro Moldes (E), O. Ardaiz Villanueva (E)			
17:30		The Multikey Web Cache Simulator: A. Pont Sanjuan (E), J. A. G. Salinas (E), J. Sahuquillo Borrás (E), L. G. Cárdenas Alexandres (E)			
		Two Phase Algorithm for Load Balancing in Heterogeneous Distributed Systems G. Attiya (F), Y. Hamam (F)			
		Scheduling of Tiled Nested Loops onto a Cluster with a Fixed Number of SMP Nodes E. Koukis (GR), M. Athanasaki (GR), N. Koziris (GR)			