

## Table of Contents

Network and Trust Model for Dynamic Federation <i>Yang Xiang, John Alan Kennedy, Harald Richter, and Matthias Egger</i>	1
A Distributed Workflow Platform for Simulation <i>Toan Nguyen, Laurentiu Trifan, and Jean-Antoine Desideri</i>	7
A Web Interface Toolkit to Manage the AMGA Metadata Server Within the EGEE Standard Deployment <i>Victor Mendez Munoz, Gabriel Amoros Vicente, Carlos Escobar Ibanez, Mohammed Kaci, and Javier Nadal Dura</i>	13
Using Simulated Annealing to Improve Reliability of Grid Computing Systems <i>Ehsan Gholami, Amir Masoud Rahmani, and Reza Farshidi</i>	17
Optimal Selection of Sampling Rate in Multiple H2 Control Loops <i>Antonio Sala, Carlos Arino, Julio Romero, and Roberto Sanchis</i>	23
Radial Basis Function and Elman Networks for Pollutant's Parameter Prediction in the Region of Annaba Algeria <i>Mohamed Tarek Khadir</i>	28
Advances in Generalization and Decoupling of Software Parts in a Scientific Simulation Workflow System <i>Arne Bachmann, Markus Kunde, Markus Litz, and Andreas Schreiber</i>	34
Communication Delay Modelling and its Impact on Real-Time Distributed Control Systems <i>Rachna Dhand, Gareth Lee, and Graeme Cole</i>	39
Real-time Processor Interconnection Network for FPGA-based Multiprocessor System-on-Chip (MPSoC) <i>Stefan Aust and Harald Richter</i>	47
Dynamic Local Search Algorithm for Solving Traveling Salesman Problem <i>Kambiz Shojaee Ghandeshtani, Mojtaba Behnam Taghadosi, Seyed Mohammad Hossein Seyedkashi, and Keyvan Shojaii</i>	53
Computational Models for Estimating Liver Iron Overload with the Magnetic Iron Detector <i>Barbara Gianesin and Luca Baldassarre</i>	59
A New Generating Set Search Algorithm for Partially Separable Functions <i>Lennart Frimannslund and Trond Steihaug</i>	65
A Quasi Real-Time Parallel FE Analysis of Masonry Walls <i>Franco Milicchio and Giovanni Formica</i>	71

A Novel Local Search Algorithm for Knapsack Problem <i>Mostafa Memariani, Kambiz Shojaei Ghandeshtani, Ahmad Madadi, and Mohammad Mohsen Neshati</i>	77
Geometric Error Estimation <i>Houman BOROUCAKI and Patrick LAUG</i>	81
New Simulated Annealing Algorithm for Quadratic Assignment Problem <i>Kambiz Shojaei Ghandeshtani, Nima Mollai, Seyed Mohammad Hosein Seyedkashi, and Mohammad Mohsen Neshati</i>	87
A Grid-based Approach to Continuous Clustering of Moving Objects <i>Tongyu Zhu, Yuan Zhang, Weifeng Lv, and Fei Wang</i>	93
Submesh Allocation in 2D-Mesh Multicomputers: Partitioning at the Longest Dimension of Requests <i>Suliman Bani-Ahmad</i>	99
Separation of Noise and Signals by Independent Component Analysis <i>Sigeru Omatu, Masao Fujimura, and Toshihisa Kosaka</i>	105
A Taxonomy of the Future Internet Accounting Process <i>Igor Ruiz-Agundez, Yoseba K. Penya, and Pablo G. Bringas</i>	111
Development and Performance Evaluation of PSO based Single Layer Nonlinear ANN Classifiers of Indian Online Shoppers <i>Ritanjali Majhi, Bijayalaxmi Panda, Babita Majhi, Rahul Tej, and Ganapati Panda</i>	118
Recognition of Two-handed Arabic Signs using the CyberGlove <i>Mohamed Mohandes</i>	124
Streaming Legacy Desktop Software from the Cloud <i>Youhui Zhang, Gelin Su, and Weimin Zheng</i>	130
Cloud Computing: Several Cloud-oriented Solutions <i>Amel Haji, Asma Ben Letaifa, and Sami Tabbane</i>	137
From Grids to Clouds: A collective intelligence study for inter-cooperated infrastructures <i>Stelios Sotiriadis, Nik Bessis, Paul Sant, and Carsten Maple</i>	142
Accelerating Data-Intensive Applications: a Cloud Computing Approach to Parallel Image Pattern Recognition Tasks <i>liangxiu Han, Tantana Saengngam, and Jano van Hemert</i>	148
Using Autarky to Evaluate Quantified Boolean Formulae	154

*Jens Ruhmkorf*

Asymptotic Bounds on Minimum Number of Disks Required to Hide a Disk

*Natasa Jovanovic, Jan Korst, Zharko Aleksovski, and Radivoje Jovanovic*

160

A Novel Multiple Valued Logic OHRNS Adder Circuit for Modulo  $(rn-1)$

*Reza Farshidi, Ahmad Habibi Zadnavin, and Ehsan Gholami*

166