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Hardware Architecture for Supporting High-speed Database Insertion on Service-oriented Router for Future Internet
Tomoaki Makino, Koichi Inoue, Michihiro Koibuchi, Hideyuki Kawashima, Hiroaki Nishi

Parallel Application Signature for Performance Prediction
Alvaro Wong, Dolores Rexachs, Emilio Luque

Method for Experimental Measurement of an Applications Memory Bus Usage
Andreas de Blanche, Stefan Mankefors-Christiernin

Parallel Unstructured Grids Package for the Solution of CFD Problems on Parallel Computers
Dulceneia Becker, Joao Roberto Barbosa

A Hybrid Expert System for IT Security Risk Assessment
Andrew Gordon, Ivan Belik, Shahram Rahimi

A Low Cost Robust Architecture with High Connectivity for the Control of Refrigeration Chambers
Antonio Marti Campoy, Jose Carlos Campelo, Juan Jose Serrano, Juan Vicente Capella

SESSION: COMMUNICATION MODELS, SYSTEMS, ROUTING, P2P AND PROTOCOLS + RELATED ISSUES

Layouts for Sparse Networks Supporting Throughput Computing
Ville Leppanen, Martti Penttonen, Martti Forsell

Collaborative Clustering of Unstructured P2P Using Tit-for-Tat Reconfiguration Rule
Naomi Aoki, Satoshi Fujita

Dynamic Switching of Total-Order Broadcast Protocols
Emili Miedes, Francesc D. Munoz-Escot

Saving Energy with Cooperative Caching in Mobile Ad Hoc Networks
Haengrae Cho, Kook-Yeol Yoo
Efficient File Sharing in Unstructured P2Ps with the Aid of Circulation of Summary Lists
Satoshi Fujita, Akira Yamashita, Shouta Okuda

Security Framework in Common Control Channel for Personal/Portable Devices over TV White Spaces
Hyun Sung Kim, Sunghwan Cho, Donghyun Jang

Broadcasting in Hierarchical Tree Cluster Network
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SESSION: INTERCONNECTION NETWORKS + GRAPH ALGORITHMS
A Linear-time Self-stabilizing Algorithm for Maximal 2-packing under Synchronous Daemon with Restriction
Zhengnan Shi

The Diagnosability of g-good-neighbor Conditional-Faulty Hypercube under PMC Model

Anycast Routing in Hypercube Multicomputers
Tan Xue-Gong, Yu Shun-Zheng

Path Embeddings and Related Properties in Cartesian Product Graphs
Sun-Yuan Hsieh, Tsong-Jie Lin, Justie Su-Tzu Juan

Lambda-Systolic Routing in a Dense Optical Torus
Risto Honkanen, Ville Leppänen

A Self-stabilizing Edge-coloring Algorithm for General Graphs Under the Distributed Daemon Model
Ji-Cherng Lin, Tetz C. Huang, Ming-Yi Chiu

Two Spanning Disjoint Paths with Required Length in Arrangement Graphs
Yuan-Hsiang Teng, Yuan-Kang Shih, Jimmy J. M. Tan, Lih-Hsing Hsu

A Feedback Vertex Set on Pancake Graphs
Sinyu Jung, Keiichi Kaneko

SESSION: APPLICATIONS IN MULTIMEDIA + VOD + STREAMING + MOBILE SYSTEMS + VIDEO
Morphing Parallelization Strategy to Support On-the-Fly Video Analysis
Munehiro Fukuda, Shuichi Kurabayashi, Jeremy Hall, Yasushi Kiyoki
Analyzing Garbage Collection Techniques for Embedded Multimedia Systems
Maria Teresa Higuera-Toledano

Energy-Aware Routing Protocol for a Distributed Mobile Computing Environment
Il Young Kim, Jong-Kook Kim

Distributed Mobile Computing: Development of Distributed Applications Using Mobile Agents
Carlos Bobed, Sergio Ilarri, Eduardo Mena

Software Implementation of Real-Time Visual Communication System over WLAN
Kook-Yeol Yoo, Hangrae Cho

**SESSION: ULTRA LOW POWER DATA-DRIVEN NETWORKING SYSTEM AND ARCHITECTURE, ULPDDNSA**

A Power Simulator/Validator for Ultra-Low-Power Data-Driven Networking System
Hiroaki Nishikawa, Kazuhiro Aoki, Hiroshi Ishii, Makoto Iwata

A Power Estimation Method for Data-Driven Power Minimizing
Yukikuni Nishida, Hiroaki Nishikawa

Macroscopic Power Simulation for Self-Timed Pipeline
Naoya Kagawa, Shuji Sannomiya, Makoto Iwata

Stage-by-Stage Power Gating Circuit for Ultra-Low-Power Self-Timed Pipeline
Shuji Sannomiya, Kei Miyagi, Makoto Iwata, Hiroaki Nishikawa

Load-aware Flooding over Ad Hoc Networks achieving a Reduction in Traffic and Power Consumption
Keisuke Utsu, Hiroaki Nishikawa, Hiroshi Ishii

A Query-based Information Discovery method using Location Coordinates and its Contribution to Reducing Power Consumption in an Ad Hoc Network
Keisuke Utsu, Naohide Fukushi, Hiroshi Ishii

**SESSION: WORKSHOP ON MATHEMATICAL MODELING AND PROBLEM SOLVING**

Generating Algorithms for Matrices with Large Condition Number to Evaluate Singular Value Decomposition
Masami Takata, Kinji Kimura, Yoshimasa Nakamura
Modified Balanced Assignment Problem - 2 Dimensional Case
Yuusaku Kamura, Mario Nakamori

Efficient State Minimization Algorithm of Linear Separation Automata
Yuji Numai, Satoshi Kobayashi

Queuing Network Approximation Technique for Evaluating Performance of Computer
Systems with Memory Resources
Toshiyuki Kinoshita, Xiumei Gao

A Data Assignment for Faceted Search on P2P Environment
Chiemi Watanabe, Mai Saito

Classification of Idiopathic Interstitial Pneumonia on High-resolution CT Images using
Counter-propagation Network
Yuki Tanaka, Hayaru Shouno, Shoji Kido

A Light Framework for the Unified Representation and Execution of Variant Tasks in a Grid Based Environment
Mohamed Wahib, Asim Munawar, Masaharu Munetomo, Kiyoshi Akama

Feature Detection of Volume Data Based on Topology and its Application to Database Construction
K. Kuriu, Masami Takata, Kazuki Joe

Update Dependence Analysis of Web Pages for Incremental Crawling
Naomi Hiromichi, Naoko Yoshii, Masami Takata, Kazuki Joe

Optimization of GROMACS for CUDA Environments
Noriko Hata, Masami Takata, Kazuki Joe

A Music Composition Model with Genetic Programming
Kyoko Komatsu, Tomomi Yamanaka, Masami Takata, Kazuki Joe

Multi-Regression Analysis of Music Impressions for Music Evaluation
Tomomi Yamanaka, Kyoko Komatsu, Naoko Yoshii, Masami Takata, Kazuki Joe

SESSION: RAID SYSTEMS, ENERGY CONSERVATION,
PARALLEL/DISTRIBUTED PROCESSING, MULTI-CORE SYSTEMS, GRID WORKFLOW, AGENT TECHNOLOGIES, NONLINEAR ANALYSIS METHODS,
PLANETLAB, AND SCHEDULING

Using Replication for Energy Conservation in RAID Systems
Jinoh Kim, Doron Rotem
Load Balancing Schemes for Parallel Processing of Dynamic Programming on BSP/CGM Model
Laure Pauline Fotso, Vianney Kengne Tchendji, Jean Frederic Myoupo

Cooperating Multi-Core and Multi-GPU in the Computation of the Multidimensional Voronoi Adjacency in Machine Learning Datasets
Juan Mendez

Enhancing the Discovery of Web Services: A Keyword-oriented Multiontology Reconciliation
Carlos Bobed, Eduardo Mena

A Workflow Orchestration and Reuse Service for the Semantic Grid
Bernady Apduhan, Toshihiro Uchibayashi, Ryousku Anami

Multi-Agent Systems: A Survey
Delaram Yazdansepas, Mohammad Reza Nami

A Hybrid MPI-OpenMP Approach for the False Nearest Neighbors Method
Julio Jose Aguila, Ismael Marin, Enrique Arias, Maria del Mar Artigao, Juan Jose Miralles

An Implementation and Evaluation of Web Access Distribution System Using PlanetLab
Cheng Tian, Ryota Ayaki, Hideki Shimada, Kenya Sato

Authentication Scheme for Personal/Portable Devices over Cognitive Radio Networking Standard
Hyun Sung Kim, Sunghwan Cho, Donghyun Jang

Predictive Scheduling with Determined Terms of Milestone Achievement
Piotr Lebkowski, Marcin Klimek