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Jianhua Sun (Eds.)

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# Grid and Cooperative Computing – GCC 2004

Third International Conference  
Wuhan, China, October 2004  
Proceedings

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Hai Jin Yi Pan Nong Xiao  
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# Grid and Cooperative Computing – GCC 2004

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## Preface

Welcome to the proceedings of GCC 2004 and the city of Wuhan. Grid computing has become a mainstream research area in computer science and the GCC conference has become one of the premier forums for presentation of new and exciting research in all aspects of grid and cooperative computing. The program committee is pleased to present the proceedings of the 3rd International Conference on Grid and Cooperative Computing (GCC 2004), which comprises a collection of excellent technical papers, posters, workshops, and keynote speeches. The papers accepted cover a wide range of exciting topics, including resource grid and service grid, information grid and knowledge grid, grid monitoring, management and organization tools, grid portal, grid service, Web services and their QoS, service orchestration, grid middleware and toolkits, software glue technologies, grid security, innovative grid applications, advanced resource reservation and scheduling, performance evaluation and modeling, computer-supported cooperative work, P2P computing, automatic computing, and meta-information management.

The conference continues to grow and this year a record total of 581 manuscripts (including workshop submissions) were submitted for consideration. Expecting this growth, the size of the program committee was increased from 50 members for GCC 2003 for 70 in GCC 2004. Relevant differences from previous editions of the conference: it is worth mentioning a significant increase in the number of papers submitted by authors from outside China; and the acceptance rate was much lower than for previous GCC conferences. From the 427 papers submitted to the main conference, the program committee selected only 96 regular papers for oral presentation and 62 short papers for poster presentation in the program. Five workshops, International Workshop on Agents, and Autonomic Computing, and Grid Enabled Virtual Organizations, International Workshop on Storage Grids and Technologies, International Workshop on Information Security and Survivability for Grid, International Workshop on Visualization and Visual Steering, International Workshop on Information Grid and Knowledge Grid, complemented the outstanding paper sessions.

The submission and review process worked as follows. Each submission was assigned to three program committee members for review. Each program committee member prepared a single review for each assigned paper or assigned a paper to an outside reviewer for review. Given the large number of submissions, each program committee member was assigned roughly 15–20 papers. The program committee members consulted 65 members of the grid computing community in preparing the reviews. Based on the review scores, the program chairs made the final decision. Given the large number of submissions, the selection of papers required a great deal of work on the part of the committee members.

Putting together a conference requires the time and effort of many people. First, we would like to thank all the authors for their hard work in preparing submissions to the conference. We deeply appreciate the effort and contributions of the program committee members who worked very hard to select the very best submissions and to put together an exciting program. We are also very grateful for the numerous suggestions

we received from them. Also, we especially thank the effort of those program committee members who delivered their reviews in a timely manner despite having to face very difficult personal situations. The effort of the external reviewers is also deeply appreciated. We are also very grateful to Ian Foster, Jack Dongarra, Charlie Catlett, and Tony Hey for accepting our invitation to present a keynote speech, and to Depei Qian for organizing an excellent panel on a very exciting and important topic. Thanks go to the workshop chairs for organizing five excellent workshops on several important topics in grid computing. We would also like to thank Pingpeng Yuan for installing and maintaining the submission website and working tirelessly to overcome the limitations of the tool we used.

We deeply appreciate the tremendous efforts of all the members of the organizing committee. We would like to thank the general co-chairs, Prof. Andrew A. Chien and Prof. Xicheng Lu for their advice and continued support. Finally, we would like to thank the GCC steering committee for the opportunity to serve as the program chairs as well as their guidance through the process. We hope that the attendees enjoyed this conference and found the technical program to be exciting.

Hai Jin and Yi Pan

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# Table of Contents

The Grid: Beyond the Hype .....	1
<i>Ian Foster</i>	
High Performance Computing Trends, Supercomputers, Clusters and Grids .....	2
<i>Jack Dongarra</i>	
e-Science and Web Services Grids .....	3
<i>Tony Hey</i>	
Making Grids Real: Standards and Sociology .....	4
<i>Charlie Catlett</i>	
About Grid .....	5
<i>Greg Astfalk</i>	
Many Faces of Grid Computing .....	6
<i>Greg Rankich</i>	
From Science to Enterprise – Intel’s Grid Activities .....	7
<i>Karl Solchenbach</i>	
<b>Session 1: Grid Service and Web Service</b>	
A QoS-Enabled Services System Framework for Grid Computing .....	8
<i>Yang Zhang, Jiannong Cao, Sanglu Lu, Baoliu Ye, and Li Xie</i>	
State Management Issues and Grid Services .....	17
<i>Yong Xie and Yong-Meng Teo</i>	
Transactional Business Coordination and Failure Recovery for Web Services Composition .....	26
<i>Yi Ren, Quanyuan Wu, Yan Jia, Jianbo Guan, and Weihong Han</i>	
Using Service Taxonomy to Facilitate Efficient Decentralized Grid Service Discovery .....	34
<i>Cheng Zhu, Zhong Liu, Weiming Zhang, Zhenning Xu, and Dongsheng Yang</i>	
QoS Analysis on Web Service Based Spatial Integration .....	42
<i>Yingwei Luo, Xinpeng Liu, Wenjun Wang, Xiaolin Wang, and Zhuoqun Xu</i>	
Engineering Process Coordination Based on a Service Event Notification Model .	50
<i>Jian Cao, Jie Wang, Shensheng Zhang, Minglu Li, and Kincho Law</i>	
A Fault-Tolerant Architecture for Grid System .....	58
<i>Lingxia Liu, Quanyuan Wu, and Bin Zhou</i>	

A Workflow Language for Grid Services in OGSi-Based Grids . . . . .	65
<i>Yan Yang, Shengqun Tang, Wentao Zhang, and Lina Fang</i>	
Membrane Calculus: A Formal Method for Grid Transactions . . . . .	73
<i>Zhengwei Qi, Cheng Fu, Dongyu Shi, Jinyuan You, and Minglu Li</i>	
Workflow-Based Approach to Efficient Programming and Reliable Execution of Grid Applications . . . . .	81
<i>Yong-Won Kwon, So-Hyun Ryu, Ju-Ho Choi, and Chang-Sung Jeong</i>	
Achieving Context Sensitivity of Service-Oriented Applications with the Business-End Programming Language VINCA . . . . .	89
<i>Hao Liu, Yanbo Han, Gang Li, and Cheng Zhang</i>	
Mapping Business Workflows onto Network Services Environments . . . . .	97
<i>Wenjun Wang, Xinpeng Liu, Yingwei Luo, Xiaolin Wang, and Zhuoqun Xu</i>	
<b>Session 2: Grid Middleware and Toolkits</b>	
GridDaenFS: A Virtual Distributed File System for Uniform Access Across Multi-domains . . . . .	105
<i>Wei Fu, Nong Xiao, and Xicheng Lu</i>	
Ad Hoc Debugging Environment for Grid Applications . . . . .	113
<i>Wei Wang, Binxing Fang, Hongli Zhang, and Yuanzhe Yao</i>	
Distributed Object Group Framework with Dynamic Reconfigurability of Distributed Services . . . . .	121
<i>Chang-Sun Shin, Young-Jee Chung, and Su-Chong Joo</i>	
Design and Implementation of Grid File Management System Hotfile . . . . .	129
<i>Liqiang Cao, Jie Qiu, Li Zha, Haiyan Yu, Wei Li, and Yuzhong Sun</i>	
pXRRepository: A Peer-to-Peer XML Repository for Web Service Discovery . . . . .	137
<i>Yin Li, Futai Zou, Fanyuan Ma, and Minglu Li</i>	
Design Open Sharing Framework for Spatial Information in Semantic Web . . . . .	145
<i>Yingwei Luo, Xinpeng Liu, Xiaolin Wang, Wenjun Wang, and Zhuoqun Xu</i>	
A Metadata Framework for Distributed Geo-spatial Databases in Grid Environment . . . . .	153
<i>Yuelong Wang, Wenjun Wang, Yingwei Luo, Xiaolin Wang, and Zhuoqun Xu</i>	
Research and Implementation of Single Sign-On Mechanism for ASP Pattern . . . . .	161
<i>Bo Li, Sheng Ge, Tian-yu Wo, and Dian-fu Ma</i>	
Design of an OGSA-Based MetaService Architecture . . . . .	167
<i>Zhi-Hui Du, Francis C.M. Lau, Cho-Li Wang, Wai-kin Lam, Chuan He, Xiaoge Wang, Yu Chen, and Sanli Li</i>	

Facilitating the Process of Enabling Applications Within Grid Portals . . . . .	175
<i>Maciej Bogdanski, Michal Kosiedowski, Cezary Mazurek, and Maciej Stroinski</i>	
Towards a Distributed Modeling and Simulation Environment for Networks . . . . .	183
<i>Yueming Lu, Hui Li, Aibo Liu, and Yuefeng Ji</i>	
Approximate Performance Analysis of Web Services Flow Using Stochastic Petri Net . . . . .	193
<i>Zhangxi Tan, Chuang Lin, Hao Yin, Ye Hong, and Guangxi Zhu</i>	
Complexity Analysis of Load Balance Problem for Synchronous Iterative Applications . . . . .	201
<i>Weizhe Zhang and Mingzeng Hu</i>	
<b>Session 3: Advanced Resource Reservation and Scheduling</b>	
Incentive-Based P2P Scheduling in Grid Computing . . . . .	209
<i>Yanmin Zhu, Lijuan Xiao, Lionel M. Ni, and Zhiwei Xu</i>	
Hybrid Performance-Oriented Scheduling of Moldable Jobs with QoS Demands in Multiclusters and Grids . . . . .	217
<i>Ligang He, Stephen A. Jarvis, Daniel P. Spooner, Xinuo Chen, and Graham R. Nudd</i>	
An Active Resource Management System for Computational Grid . . . . .	225
<i>Xiaolin Chen, Chang Yang, Sanglu Lu, and Guihai Chen</i>	
Predicting the Reliability of Resources in Computational Grid . . . . .	233
<i>Chunjiang Li, Nong Xiao, and Xuejun Yang</i>	
Flexible Advance Reservation for Grid Computing . . . . .	241
<i>Jianbing Xing, Chanle Wu, Muliu Tao, Libing Wu, and Huyin Zhang</i>	
Club Theory of the Grid . . . . .	249
<i>Yao Shi, Francis C.M. Lau, Zhi-Hui Du, Rui-Chun Tang, and Sanli Li</i>	
A Runtime Scheduling Approach with Respect to Job Parallelism for Computational Grid . . . . .	261
<i>Li Liu, Jian Zhan, and Lian Li</i>	
A Double Auction Mechanism for Resource Allocation on Grid Computing Systems . . . . .	269
<i>Chuliang Weng, Xinda Lu, Guangtao Xue, Qianni Deng, and Minglu Li</i>	
Research on the Virtual Topology Design Methods in Grid-Computing-Supporting IP/DWDM-Based NGI . . . . .	277
<i>Xingwei Wang, Minghua Chen, Qiang Wang, Min Huang, and Jiannong Cao</i>	

De-centralized Job Scheduling on Computational Grids  
Using Distributed Backfilling ..... 285  
*Qingjiang Wang, Xiaolin Gui, Shouqi Zheng, and Bing Xie*

**Session 4: Grid Security**

A Novel VO-Based Access Control Model for Grid ..... 293  
*Weizhong Qiang, Hai Jin, Xuanhua Shi, and Deqing Zou*

G-PASS: Security Infrastructure for Grid Travelers ..... 301  
*Tianchi Ma, Lin Chen, Cho-Li Wang, and Francis C.M. Lau*

Protect Grids from DDoS Attacks ..... 309  
*Yang Xiang and Wanlei Zhou*

Trust Establishment in Large Scale Grid Settings ..... 317  
*Bo Zhu, TieYan Li, HuaFei Zhu, Mohan S. Kankanhalli, Feng Bao,  
and Robert H. Deng*

XML Based X.509 Authorization in CERNET Grid ..... 325  
*Wu Liu, Jian-Ping Wu, Hai-Xin Duan, Xing Li, and Ping Ren*

Alerts Correlation System to Enhance the Performance  
of the Network-Based Intrusion Detection System ..... 333  
*Do-Hoon Lee, Jung-Taek Seo, and Jae-Cheol Ryou*

Security Architecture for Web Services ..... 341  
*Yuan Rao, Boqin Feng, and Jincang Han*

A Hybrid Machine Learning/Statistical Model of Grid Security ..... 348  
*Guang Xiang, Ge Yu, Xiangli Qu, Xiaomei Dong, and Lina Wang*

A Novel Grid Node-by-Node Security Model ..... 356  
*Zhengyou Xia and Yichuan Jiang*

Research on Security of the United Storage Network ..... 364  
*Dezhi Han, Changsheng Xie, and Qiang Cao*

**Session 5: Information Grid and Knowledge Grid**

Q3: A Semantic Query Language for Dart Database Grid ..... 372  
*Huajun Chen, Zhaohui Wu, and Yuxing Mao*

Knowledge Map Model ..... 381  
*Hai Zhuge and Xiangfeng Luo*

Kernel-Based Semantic Text Categorization  
for Large Scale Web Information Organization ..... 389  
*Xianghua Fu, Zhaofeng Ma, and Boqin Feng*



Mobile Computing Architecture in Next Generation Network . . . . .	397
<i>Yun-Yong Zhang, Zhi-Jiang Zhang, Fan Zhang, and Yun-Jie Liu</i>	
A Study of Gridifying Scientific Computing Legacy Codes . . . . .	404
<i>Bin Wang, Zhuoqun Xu, Cheng Xu, Yanbin Yin, Wenkui Ding, and Huashan Yu</i>	
Aegis: A Simulation Grid Oriented to Large-Scale Distributed Simulation . . . . .	413
<i>Wei Wu, Zhong Zhou, Shaofeng Wang, and Qinqing Zhao</i>	
An Adaptive Data Objects Placement Algorithm for Non-uniform Capacities . . . . .	423
<i>Zhong Liu and Xing-Ming Zhou</i>	
Resource Discovery Mechanism for Large-Scale Distributed Simulation Oriented Data Grid . . . . .	431
<i>Hai Huang, Shaofeng Wang, Yan Zhang, and Wei Wu</i>	
Research and Design on a Novel OGSA-Based Open Content Alliance Scheme . . . . .	440
<i>ZhiHui Lv, YiPing Zhong, and ShiYong Zhang</i>	
An Ontology-Based Model for Grid Resource Publication and Discovery . . . . .	448
<i>Lei Cao, Minglu Li, Henry Rong, and Joshua Huang</i>	
A New Overload Control Algorithm of NGN Service Gateway . . . . .	456
<i>Yun-Yong Zhang, Zhi-Jiang Zhang, Fan Zhang, and Yun-Jie Li</i>	
Nodes' Organization Mechanisms on Campus Grid Services Environment . . . . .	464
<i>Zhiqun Deng, Zhicong Liu, Hong Luo, Guanzhong Dai, Xinjia Zhang, Dejun Mu, and Hongji Tang</i>	
A Resource Organizing Protocol for Grid Based on Bounded Two-Level Broadcasting Technique . . . . .	472
<i>Zhigang Chen, Anfeng Liu, and Guoping Long</i>	
<b>Session 6: P2P Computing and Automatic Computing</b>	
<i>Peer-Owl: An Adaptive Data Dissemination Scheme for Peer-to-Peer Streaming Services . . . . .</i>	479
<i>Xiaofei Liao and Hai Jin</i>	
WCBF: Efficient and High-Coverage Search Schema in Unstructured Peer-to-Peer Network . . . . .	487
<i>Qianbing Zheng, Yongwen Wang, and Xicheng Lu</i>	
EM Medical Image Reconstruction in a Peer-to-Peer Systems . . . . .	495
<i>Jun Ni, Tao He, Xiang Li, Shaowen Wang, and Ge Wang</i>	
End Host Multicast for Peer-to-Peer Systems . . . . .	502
<i>Wanqing Tu and Weijia Jia</i>	