Grid 2006 Technical Program

Thursday 28 September
Welcome session – 8:30 – 9:45

• Keynote: Malcom Atkinson

Session 1 Plenary Session – 9:45 – 11:00

• QoS-Constrained Stochastic Workflow Scheduling in Enterprise and Scientific Grids, A. Afzal, J. Darlington and S. McGough, Imperial College London

• Resource Discovery Techniques in Distributed Desktop Grid Environments, J-S Kim, B. Nam, P. Keleher, M. Marsh, B. Bhattacharjee, A. Sussman, University of Maryland

Session 2A Workflow in Grids, 11:30 – 13:00

• Overhead Analysis of Grid Workflow Applications, F. Nerieri, R. Prodan, T. Fahringer, H-L. Troung, University of Innsbruck

• Workflow Global Computing with YML, O. Delannoy, N. Emad and P. Serge, University of Versailles and INRIA

• Run-time Optimization for Grid Workflow Applications, R. Duan, R. Prodan, T. Fahringer, University of Innsbruck

Session 2B Data Services and Scheduling in P2P Grids, 11:30 – 13:00

• A GridFTP Overlay Network Service, P. Rizk, C. Kiddle, R. Simmonds, University of Calgary

• YA: Fast and Scalable Discovery of Idle CPUs in a P2P network, J. Celaya, U. Arronategui, University of Zaragoza

• Fault-aware scheduling for Bag-of-Tasks applications on Desktop Grids, C. Anglano, J. Brevik, M. Canonico, D. Nurmi, University of Piemonte Orientale and University of California, Santa Barbara

Session 3A Grid Workflow and Logging Issues, 14:00 – 15:30

• QoS support for workflows in a volatile Grid, Y. Patel, S. McGough and J. Darlington, Imperial College London.

• Using Workflow for Dynamic Security Context Management in Grid-based Applications, Y. Demchenko, L. Gommans, C. de Laat, A. Taal, F. Wan, O. Mulmo, University of Amsterdam

• Flexible and Secure Logging of Grid Data Access, W. Zhang, D. Del Vecchio, G. Wasson, M. Humphrey, University of Virginia
Session 3B Data Resource Allocation, 14:00 – 15:30

- **Multi-Replication with Intelligent Staging in Data-Intensive Grid Applications**, Y. Machida, s. Takizawa, H. Nakada, S. Matsuoka, Tokyo Institute of Technology
- **A QoS-Aware Heuristic Algorithm for Replica Placement**, H. Wang, P. Liu, J-J Wu, National Taiwan University and Academia Sinica
- **Operating System Support for Space Allocation in Grid storage systems**, D. Thain University of Notre Dame

Panel session, 16:00 – 17:30

- **Standards: role, maturity and adoption.** Organizer – Mark Linesch

Sponsor talks, 18:00 – 18:30

Posters session, 18:30 – 20:30

- **Availability Traces of Enterprise Desktop Grids**, D. Kondo, G. Fedak, F. Cappello, A. Chien, H. Casanova, INRIA, Intel and Univ. of Hawai‘i
- **Improving Security in Grids Using the Smart Card Technology**, D. Kouril, L. Matyska, M. Prochazka, CESNET, Czech Republic
- **Specification based Synthesis of Tailor-made Grid Application Executor Services**, J. Hofer, T. Fahringer, University of Innsbruck
- **A Multi Interface Grid Discovery System**, A. Ali, A. Anjum, R. McClatchey, F. Khan, M. Thomas, NUST Institute of Technology, University of the West of England and CalTech
- **Monitoring and analysing a Grid Middleware Node**, R. Nou, F. Julia, D. Carrera, K. Hogan, J. Torres, Technical University of Catalonia and Barcelona Supercomputing Center
- **GriCoL: A language for Grid Computing**, N. Currle-Linde, M. Resch, University of Stuttgart
- **An Incentive Sharing Approach for Computational Resources in the Autonomous Context**, C. Weng, M. Li, X. Lu, Shanghai Jiao Tong University
- **Ranking and Performance Exploration of Grid Infrastructures: An Interactive Approach**, G. Tsoulouas, M. Dikaiakos, University of Cyprus
- **An Infrastructure for Dynamic Composition of Grid Services**, Z. Li, M. Parashar, Rutgers University
• Providing Portlet-Based Client Access to CIMA-Enabled Crystallographic Instruments, Sensors, and Data, H. Yin, D. McMullen, M. Nacar, M. Pierce, K. Huffman, Indiana University

• Snapshot Processing in Streaming Environments, D. Zimmereman, K.M. Chndy, California Institute of Technology

• Design of a Peer-to-Peer Information System Using the GT4 Index Service, S. Bharathi and A. Chervenak, University of Southern California, ISI.

• Service-Oriented Production Grids and User Support, G. Terstynansky, T. Kiss, T. Delaitre, S. Winter, P. Kacsuk, University of Westminster

• Towards an Adoption Model of The Grid Information Technology in the Organizational Arena, J. Maqueira, S. Bruque, Universidad de Jaén


• The Palantir Grid Meta-Information System, F. Guim, I. Rodero, M. Tomas, J. Corbalan, J. Labarta, Barcelona Supercomputing Center and Technical University of Catalunya

Friday 29 September
Plenary session – 9:00 – 10:30

• Keynote: TBD

• Presentation from the European Commission: Wolfgang Boch

Session 4A Data and Metadata, 11:00 – 12:30

• Personal Workspace for Large-Scale Data-driven Computational Experimentation, Y. Sun, S. Jensen, S. Pallicara, B. Plale, Indiana University

• Grid Deployment of Legacy Bioinformatics Applications with Transparent Data Access, C. Bianchet, R. Mollon, D. Thain, G. Deleage, CNRS IBCP and University of Notre Dame

• Exposing UDDI Service Descriptions and Their Metadata Annotations as WS-Resources, W. Fang, L. Moreau, R. Anathakrishnan, M. Wilde, I. Foster, University of Southampton and Argonne National Laboratory
Session 4B Grid Security – 1, 11:00 – 12:30

- Shibboleth-based Access to and Usage of Grid Resources, R. Sinnott, J. Watt, J. Jiang, O. Ajayi, University of Glasgow
- On-demand Trust Evaluation, D. O’Callaghan and B. Coghian, Trinity College Dublin

Session 5A Data streaming in Grids, 13:30 – 15:00

- Stream processing in data-driven computational science, Y. Liu, N. Vijayakumar, B. Plale, Indiana University
- Distributed File Streamer: A Framework for Distributed Application Data Coupling, K. Chen, Z. Huang, B. Li, E. Huang, H. Rajic, B. Kuhn, W. Chen, Intel and Tsinghua University
- A Self-Managing Wide-Area Data Streaming Service using Model-based Online Control, V. Bhat, M. Parashar, N. Kandasamy, M. Khandekar, S. Klasky, Rutgers University and Drexel University and Oak Ridge National Laboratory.

Session 5B Grid Security - 2, 13:30 – 15:00

- OCSP for Grids: Comparing Prevalidation versus Caching, J. Luna, O. Manso, M. Medina, Polytechnic University of Catalonia
- Cacheable Decentralized Groups for Grid Resource Access Control, J. Hemmes, D. Thain, University of Notre Dame.
- Architecture for Secure Distributed Repository, T. Haupt, A. Kalyanasundaram, I. Zhuk, Mississippi State University

Session 6A Messaging, 15:30 - 17:00

- The Design and Implementation of a Distributed Notification Broker for WS-Notification, A. Quiroz, M. Parashar, Rutgers University
- A Framework for Secure End-to-End Delivery of Messages in Publish/Subscribe Systems, S. Pallickara, M. Pierce, H. Gadgil, G. Fox, Y. Yan, Community Grids Lab.

Session 6B Scheduling-1, 15:30 - 17:00

- Metascheduling Multiple Resource Types using the MMKP, D. Vanderster, N. Dimopoulos, R. Sobie, University of Victoria
- A Set Coverage-based Mapping Heuristic for Scheduling Distributed Data-Intensive Applications on Global Grids, S. Venugopal, R. Buzya, University of Melbourne
- AMBLE: An Awareness Model for Balancing the Load in collaborative grid Environments, P. Herrero, J. Bosque, M. Salvadores, M. Pérez, Universidad Politécnica de Madrid
Session 7A Scheduling-2, 17:00 – 18:30

- **Negotiation Model Supporting Co-Allocation for Grid Scheduling**, J. Li, R. Yahyapour, University of Dortmund
- **How are Real Grids Used? The Analysis of Four Grid Traces and Its Implications**, A. Iosup, C. Dumitrescu, D. Epema, H. Li, L. Wolters, TU Delft and Leiden University
- **Resource Allocation in Streaming Environments**, L. Tian, K.M. Chandy, California Institute of Technology

Session 7B Performance, 17:00 – 18:30

- **Performance models for hierarchical grid architectures**, P. Cremonesi, R. Turrin, Politecnico di Milano
- **Predicting Running Time of Grid Tasks based on CPU Load Predictions**, Y. Zhang, W. Sun, Y. Inoguchi, Japan Advanced Institute of Science and Technology
- **Measuring the Performance and Reliability of Production Computational Grids**, O. Khalili, J. He, C. Olschanowsky, A. Snavely, H. Casanova, University of California, San Diego, SDSC and University of Hawai’i

Closing, 18:30 – 19:00