

CI6016 (HPC-Asia2005/NPC 2005/GCC 2005)

Advance Agenda

DATE	Morning	Afternoon	Evening
November 29 Tuesday To December 3 Saturday	Registration	Registration	Registration
November 30 Wednesday	Open Ceremony Keynote Speeches Exhibition	Keynote Speeches Exhibition	Sponsored Dinner
December 1 Thursday	Keynote Speeches Exhibition	Industry Forums Roundtables Press Conference Exhibition	Sponsored Dinner
December 2 Friday	Industry Forum Panels Parallel Technical Sessions Exhibition	Industry Forum Special Session Parallel Technical Sessions Exhibition	Steering Committees Meeting
December 3 Saturday	Parallel Technical Sessions Workshops	Parallel Technical Sessions Workshops	
December 4 Sunday	Site Visits and Tour		

CI6016 (Computer Innovation 6016) are co-hosted with three international technical conferences: the 8th International Conference on High-Performance Computing in Asia-Pacific Region (HPC-Asia 2005), the 4th International Conference on Grid and Collaborative Computing (GCC 2005) and the 2nd IFIP International Conference on Network and Parallel Computing (NPC 2005).

Keynote Speeches, Roundtables, Press Conference, Special Session on System Software, Panels, Industry Forum and Exhibition are open to all attendees.

Technical Sessions of each conference (GCC 2005, HPC-Asia 2005, or NPC 2005) are open only to registered participants. Each registered participant will also receive a copy of the conference proceedings.

CI6016 will host four workshops: Workshop on Grid Education, Workshop on Bioinformatics and Computational Biology, Workshop on Internet Security, and Sino-UK Grid Workshop. These workshops are open only to registered participants.

CI6016 AT A GLANCE

DATE/ TIME	NPC 2005	GCC 2005	HPC-Asia 2005	Special Sessions and Workshops	Industry Forums	Exhibition
November 29 to December 3 (7:30-18:00)	Registration and Conference Material Pickup Reception Desks on First Floor (1F)					
November 30 (8:30-12:10)	Open Ceremony Keynote Talks <i>Room No. 1 (2F)</i>					Exhibition Hall (2# Expo on 1F)
November 30 (13:30-17:30)						
December 1 (8:30-12:40)						
December 1 (14:00-16:30)	Roundtable on Computer Innovation Trends <i>Room: No.7 +No.8 (2F)</i>		Roundtable on Computer Education <i>Room: No.11+ No.12 (3F)</i>		Room A/ B/ C (5# Expo on 1F)	
December 1 (16:30-18:30)	Press Conference <i>Room No. 3 (3F)</i>					
December 2 (8:30-12:00)	Session 1A, 2A, 1B, 2B <i>Rm No.14/ No.3030 (3F)</i>	Open Session Rm <i>No.10 +11 +12 (3F)</i>	Session 1-4 <i>Rm No.3,4 (3F)</i>	Panel Session on Auto. Program Optimization (8:30-10:00) <i>Room No. 16 (3F)</i>		
December 2 (13:30-18:00)	Session 3B, 4B <i>Rm No.14 (3F)</i>	Session 1A-1D Rm <i>No.10-13(3F)</i>	Session 5-8 <i>Rm No.3,4 (3F)</i>	Panel Session on NPC Trends (10:30-12:00) <i>Room No. 16 (3F)</i>		
December 2 (13:30-18:00)	Session 3B, 4B <i>Rm No.14 (3F)</i>	Session 2A-2D, 3A-3D Rm <i>No.10-13(3F)</i>	Session 5-8 <i>Rm No.3,4 (3F)</i>	Special Session on System Software <i>Room No. 16 (3F)</i>		
December 3 (8:30-12:00)	Session 5A, 6A, Short Paper <i>Rm No. 14/ No. 3030 (3F)</i>	Session 4A-4C, 5A-5C Rm No.10-12 (3F)	Session 10-13 <i>Rm No.3,4 (3F)</i>	Workshops (Bioinformatics, Internet Security, Sino-UK Grid) <i>Room A/B/C (5# Expo on 1F)</i>		
December 3 (13:30-18:00)	Session 7A, 7B, 8A, 8B <i>Rm No. 14/ No. 3030 (3F)</i>	Session 6A-6C, 7A-7C Rm No.10-12 (3F)	Session 9,14,15 <i>Rm No.3,4 (3F)</i>	Workshops (Bioinformatics, Internet Security, Sino-UK Grid) <i>Room A/B/C (5# Expo on 1F)</i>		

Activities in pink color are open to all attendees.

Keynote Speeches Schedule

November 30 (Wednesday)		Keynote Speech (Room No. 1, 2F)
08:30am – 09:00am	Opening Ceremony	
09:00am – 10:00am	Keynote 1: Charles Nietubicz, Director, ARL Major Shared Resource Center High Performance Computing at the Army Research Laboratory: Past, Present and Future	
10:00am – 10:10am	Break	
10:10am – 11:10am	Keynote 2: Stephen Pawlowski, Senior Fellow, Intel Corporation TBD	
11:10am – 12:10am	Keynote 3: Carl Chang, 2004 President, IEEE Computer Society From Silk Road to Silicon Road: Old Educators Never Die	
12:10pm – 13:30pm	Lunch	
13:30pm – 14:20pm	Keynote 4: Jack Dongarra, Professor, University of Tennessee An Overview of High Performance Computing	
14:20pm – 15:00pm	Keynote 5: David Wei Wei Executive Director, Chief Researcher of Lenovo Corporate Research (China), Lenovo Group Trusted Computing Brings Evolution of Computer Architecture	
15:00pm – 15:10pm	Break	
15:10pm – 15:50pm	Keynote 6: Frank Baetk HP Global HPC-Technology Program Manager New Trends in High Performance Computing	
15:50pm – 16:40pm	Keynote 7: Viktor Prasanna, Professor, University of Southern California Supercomputing on Reconfigurable Platforms	
16:40pm – 17:30pm	Keynote 8: Tsugio Makimoto, Former Corporate Advisor, Sony Corporation Chip Innovations and AV/IT Convergence	

December 1 (Thursday)		Keynote Speech (Room No. 1, 2F)
08:30am – 09:30am	Keynote 9: Irving Wladawsky-Berger, VP of Technology and Strategy, IBM Innovation in an On Demand World: The Future of IT	
09:30am – 10:30am	Keynote 10: Rick Stevens, Acting Associate Director, Argonne National Laboratory Towards the Second Century of the Computer	
10:30am – 10:40am	Break	
10:40am – 11:40am	Keynote 11: Jingwen Wang, CTO, Platform Computing Virtualized Computing Infrastructure	
11:40am – 12:40pm	Keynote 12: Tony Hey, UK e-Science Core Programme and VP of Microsoft e-Science and Cyberinfrastructure	
12:40pm – 14:00pm	Lunch	

Roundtable on Computer Innovation Trends

December 1 (14:00-16:30), Room: No.7 +No.8 (2F)

Co-chairs: Ian Foster (Argonne National Laboratory), Zhiwei Xu (Chinese Academy of Sciences)

Invited experts will discuss the following problems: - What are the main milestones and lessons of computing in the past 60 years?- Is IT entering the mass adoption phase? What are the main challenges for computing in the next 16 years? What will be the main innovation opportunities? What research is being funded by governments and the private sector?

Roundtable on Computer Education

December 1 (14:00-16:30), Room: No.11+ No.12 (3F)

Co-chairs: Carl Chang (IEEE Computer Society), Xiao-Ming Li (Peking University)

Invited experts will discuss the following problems: - What's the computing (CS) job situation in 5, 10, 15 years? What are CS students expected to do after graduation? Is computing (CS) cool? How to keep the CS discipline cool? What are students expected to learn in CS? What are the best CS schools? Should we believe various rankings on the net and media?

Panel on Automatic Program Optimization

December 2 (8:30-10:00), Room No. 16 (3F)

Chair: David Padua (University of Illinois, USA)

Panelist: Wenguang Chen (Tsinghua University), Albert Cohen (INRIA, France), Guang Gao (University of Delaware, USA), Lawrence Rauchwerger (Texas A&M University, USA)

Panel on Network and Parallel Computing Trends

December 2 (10:30-12:00), Room No. 16 (3F)

Chair: Hai Jin (Huazhong University of Science and Technology, China)

Panelist: Lionel Ni (Hong Kong University of Science and Technology, China), Addison Snell (IDC, USA), Jie Wu (IDC, USA)

Special Session on System Software

December 2 (13:30-17:30), Room No. 16 (3F)

13:30pm– 14:00pm	TeraGrid: A Foundation for US Cyberinfrastructure <i>Charlie Cattlet</i>
14:00pm– 14:30pm	Overview of the NAREGI Super Scheduler: an Experimental Implementation of the GGF OGSA-EMS Architecture <i>S. Matsuoka, et al.</i>
14:30pm– 15:00pm	The Microsoft Perspective on the Future of High Performance Computing Infrastructure <i>Marvin Theimer</i>
15:00pm– 15:30pm	Break
15:30pm– 16:00pm	Globus Toolkit Version 4: Software for Service-Oriented Systems <i>Ian Foster</i>
16:00pm– 16:30pm	System Software for China National Grid <i>Li Zha, et al.</i>
16:30pm– 17:30pm	Q&A and Discussion

Workshop on Grid Education

December 1(19:30-21:30) Room No.6 (2F)

19:30pm--19:45pm	Invited talk 1: Mark Baker (University of Portsmouth, United Kingdom)
19:45pm--20:00pm	Invited talk 2: Frank Wang (Cambridge-Cranfield HPCF) -- EuroAsia Grid: Building on the Past - Looking to the Future
20:00pm--20:15pm	Invited talk 3: Hai Jin (Huazhong University of Science and Technology) -- ChinaGrid: Advance and Perspective
20:15pm--20:30pm	Invited talk 4: Prof. Garcia (University of Murcia, Spain) -- Grid Teaching and Research Activities at Murcia
20:30pm--20:45pm	Invited talk 5: Zhiwei Xu (Chinese Academy of Sciences) -- VegaGrid: Advance and Perspective
20:45pm--21:00pm	Invited talk 6: Dr. Shawky (UTC, France) -- Grid Teaching and Research Activities at Compiègne
21:00pm--21:15pm	Invited talk 7: Minglu Li (Shanghai Jiao Tong University) -- Shanghai Grid
21:15pm--21:30pm	Invited talk 8: Weimin Zheng (Tsinghua University) -- ChinaGrid Middleware Development

Sino-UK Grid Workshop Program

December 3, Room A (5# Expo on 1F)

08:30am – 09:00am	Opening Remarks China Side: Depei Qian, UK Side: Tony Hey
09:00am – 10:30am	Simon Cox (University of Southampton) – Engineering Applications Keith Haines (University of Reading) – Environmental Applications Rob Proctor (University of Manchester) - e-Social Science Derek Hill (UCL) - Medical Applications
10:30am – 10:45am	Break
10:45am – 12:15am	Yike Guo (Imperial College) - High-throughput Middleware Malcolm Atkinson (University of Edinburgh) – National e-Science Centre Steven Newhouse (University of Southampton) – OMII Jie Xu (University of Leeds) - Current collaborations with China
12:15pm – 13:45pm	Lunch
13:45pm – 15:15pm	Jun Wang (Beijing Genomics Institute) – Bioinformatics Applications Xudong Chai (Beijing Simulation Center) – Virtual Manufacturing Applications Li Zha (Institute of Computing Technology) – CNGrid Middleware and UK Collaboration
15:15pm – 15:45pm	Break
15:45pm – 17:45pm	Group Discussion: Roadmap for Future Collaboration in eScience

Workshop on Bioinformatics and Computational Biology

December 3, Room B (5# Expo on 1F)

08:30am – 09:25am	Invited talk 1: Richar Durbin
09:25am – 10:00am	Invited talk 2: Wang Jun
10:00am – 10:35am	Invited talk 3: SongGang Li -- Polymorphism
10:35am – 10:45pm	Break
10:45am – 12:00am	<p>Nearest Neighbor Algorithm for Prediction of Protein Domain Structural Class Zhen-Hui Zhang, Zheng-Hua Wang, Yong-Xian Wang</p> <p>ClustalY: Speed Up the Guide Tree Building for ClustalW Huan Yu, Minghua Deng</p> <p>Clustering Orthologs Based on Sequence and Domain Similarities Fa Zhang, ShengZhong Feng, Hatice Ozer, Bo Yuan</p>
12:00am – 13:20pm	Lunch
13:20pm – 13:55pm	Invited talk 4: Runsheng Chen -- Non-coding RNA
13:55pm – 14:30pm	Invited talk 5: Liping Wei
14:30pm – 15:05pm	Invited talk 6: Weimou Zhen
15:05pm – 15:15pm	Break
15:15pm – 18:10pm	<p>Gene Cluster Algorithm Based on Most Similarity Tree Lu Xinguo, Lin Yaping, Li Xiaolong, Yi Yeqing</p> <p>Missing Value Estimation For Microarray Data Based On Fuzzy C-means Clustering TaoYang, JiaWei Luo, YanWang, JunHao Wu</p> <p>BiClustering of Gene Expression Data By Simulation Annealing Anupam Chakraborty</p> <p>ICA Based Supervised Gene Classification of Microarray Data in Yeast Functional Genome Lu Xinguo, Li Yaping, Li Xiaolong, Yi Yeqing, Cai Lijun</p> <p>Towards a Weighted-Tree Similarity Algorithm for RNA Secondary Structure Comparison Jing Jin, Biplab K. Sarker, Virendra C. Bhavsar, Harold Boley, Lu Yang</p> <p>Parallel Implementation of Stochastic Simulation for Large-Scale Cellular Signaling Processes Tianhai Tian, Kevin Burrge</p> <p>Report about VOCs Dataset's Analysis based on Random Forests Method Huaizhong Zhang, Fred Hamprecht</p>

Workshop on Information Intelligence and Internet Security

December 3, Room C (5# Expo on 1F)

08:30am – 09:00am	Opening Remarks
09:00am – 10:40am	Invited talk 1: Kai Hwang (University of Southern California) --Internet Worms and DDoS Defense Invited talk 2: Deyi Li (China Institute of Electronic System Engineering) --Complex Networks and Cyberspace Security
10:40am – 11:00am	Break
10:00am – 12:00am	Yixian Yang (Beijing University of Posts and Telecommunications) -- Education of Information Security in China Jianhua Li (Shanghai Jiao Tong University) -- Network and Information Security
12:15pm – 14:00pm	Lunch
14:00pm – 16:30pm	Qingshi Gao (Institute of Computing Technology of CAS) -- Analyzing and amending the Errors of Zadeh's Fuzzy Set Theory Dengguo Feng (Institute Of Software, CAS) --- Key Issues in Information Security Xiaochun Yun (Harbin Institute of Technology) -- The Current and Future Techniques on Network Virus Zhongfei Zhang (State University of New York) -- Relational Data Clustering and Ensemble for Community Generation Xueqi Cheng (Institute of Computing Technology of CAS) -- Intelligent Technology in High Speed Network Security
16:30pm – 16:45pm	Break
16:45pm – 17:45pm	Discussion: Fundamental Research Issues for National Cyber-security
18:00pm	Dinner