



China-U.S. Symposium on Cyberinfrastructure
Tsinghua University, Beijing, P. R. China
April 14-15, 2009

Advance Program

9am-12:00pm April 14 2009, Main Plenary: Keynote Speech

Location: Lecture Hall, FIT Building; Chairs: Jun Li and Rudolf Eigenmann

Time	Title	Speaker
9:00-9:10	Welcome Remarks	Jun Li Professor and Dean, Research Institute of Information Technology Deputy Dean, School of Information Science and Technology, Tsinghua University Rudolf Eigenmann Professor of Electrical and Computer Engineering, Purdue University
9:10-10:00	Cyberinfrastructure and Computational Science for Research and Education	Edward Seidel Director, Office for Cyberinfrastructure, National Science Foundation Professor, Center for Computation & Technology, Louisiana State University
10:00-10:30	Resource Sharing for Research and Education in China	Cheng Wu Professor and Director, National CIMS Engineering and Research Center, Tsinghua University Academician, Chinese Academy of Engineering
10:30-11:00	Advanced Computing in China	Jinpeng Huai Professor and Vice President of Beihang University Leader of Computer Division of China's 863 Projects
11:00-11:30	Cyberinfrastructure Development at Chinese Academy of Sciences	Tieniu Tan Professor and Director, National Laboratory of Pattern Recognition, Institute of Automation of the Chinese Academy of Sciences Deputy Secretary-General, Chinese Academy of Sciences
11:30-12:00	Technical Challenges of Cyberinfrastructure Development	Barbara Fossum Managing Director, Cyber Center, Purdue University Discovery Park

12:00pm-2:00pm April 14 2009, Lunch, Yan Restaurant

2:00pm-5:00pm April 14 2009, Parallel Sessions: Cyberinfrastructure Application Enabling I

Location: FIT 1-315; Chairs: Junwei Cao and Barbara Fossum

Time	Title	Speaker
2:00-2:20	Cyberinfrastructure for Earthquake Engineering	Rudolf Eigenmann Professor of Electrical and Computer Engineering, Purdue University
2:20-2:40	High Performance Computing in the Discovery of Disease Mutations	Rui Jiang Associate Professor, Department of Automation, Tsinghua University
2:40-3:00	Cyberinfrastructure-enabled Civil Infrastructure Regional Modeling and	Yunfeng Zhang Associate Professor, Department of Civil and Environmental Engineering, University of

	Management: Integrated Simulation, Experiments and Analysis	Maryland
3:00-3:20	Computational Analysis for Poverty Reduction and Environment Assessment for Millionum Development Goals	Chuang Liu Professor, Institute of Geography and Natural Resources, Chinese Academy of Sciences Director, World Resources Research, Beijing Normal University
3:20-3:40	Break	
3:40-4:00	Climate Research and Impact, Needs for Cyber-enabled Systems and Collaboration.	Dr. Dev Niyogi Assistant Professor, Dept. of Earth & Atmospheric Sciences & Dept of Agronomy, Purdue University
4:00-4:20	Wireless Sensor Network Technologies and its Application in Agriculture	Dr. Yuexuan Wang Associate Professor and Associate Director, Institute for Theoretical Computer Science, Tsinghua University
4:20-5:00	Discussions	All participates

2:00pm-5:00pm April 14 2009, Parallel Sessions: Cyberinfrastructure for Data and HPC

Location: FIT 1-415; Chairs: Jijiang Yang and Jason Liu

Time	Title	Speaker
2:00-2:20	TeraGrid Science Gateways: Domain Needs for Distributed and HPC Systems	Nancy R. Wilkins-Diehr TeraGrid Area Director for Science Gateways, San Diego Supercomputer Center, University of California, San Diego
2:20-2:40	Building Data Intensive Cyberinfrastructure Enabled Science Innovation of Chinese Academy of Sciences	Jianhui Li Director, Scientific Data Center, Computer Network Information Center, Chinese Academy of Sciences
2:40-3:00	Building Campus Cyberinfrastructure: Integration with National and International Cyberinfrastructure	Dr. Carol Song Senior Research Scientist, Rosen Center for Advanced Computing, Purdue University
3:00-3:20	Multi-Core Computing	Dongsheng Wang Professor and Director, CPU R&D Center, Research Institute of Information Technology, Tsinghua University
3:20-3:40	Break	
3:40-4:00	Building Cyberinfrastructure at Supercomputer Centers	Virginia Bedford Associate Director, Arctic Region Supercomputing Center, University of Alaska Fairbanks
4:00-4:20	Cyberinfrastructure for Digital Libraries	Chunxiao Xing Professor and Director, Web and Software R&D Center, Research Institute of Information Technology, Tsinghua University
4:20-5:00	Discussions	All participates

5:40pm April 14 2009, Starting from FIT Building

6:30pm-9:00pm April 14 2009, Dinner, Dazhaimen Restaurant

9:00am-12:00pm April 15 2009, Parallel Sessions: Cyberinfrastructure Application Enabling II

Location: FIT 1-315; Chairs: Xiaoge Wang and Barbara Fossum

Time	Title	Speaker
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9:00-9:20	Visualization Outsourcing by	Christoph Hoffmann Professor of Computer Science Director, Rosen Center for Advanced Computing, Purdue University
9:20-9:40	Cyberinfrastructure Requirements for Gravitational Wave Data Analysis	Junwei Cao Professor and Assistant Dean, Research Institute of Information Technology Tsinghua University
9:40-10:00	SPMD Simulated Annealing and Downhill Algorithm for QCBED (Quantitative Convergence Beam Electron Diffraction) Analysis	Zhihui Du Associate Professor of Computer Science, Tsinghua University
10:00-10:20	Numerical Relativity and Massive Computation	Zhoujian Cao Assistant Professor, Institute of Applied Mathematics, Chinese Academy of Sciences
10:20-10:40	Break	
10:40-12:00	Discussions	All participates

9:00am-12:00pm April 15 2009, Parallel Sessions: Software Development for Cyberinfrastructure
Location: FIT 1-415; Chairs: Yong Zhang and Carol Song

Time	Title	Speaker
9:00-9:20	The PIRE Project and Related Research in Simulation and Modeling at FIU	Jason Liu Assistant Professor, School of Computing and Information Sciences, Florida International University
9:20-9:40	Cloud Computing and Virtualization	Zhen Xiao Professor of Computer Science, Peking University
9:40-10:00	Cyberinfrastructure for Education	Krishna Madhavan Assistant Professor, Engineering & Science Education, Clemson University
10:00-10:20	Virtualization and Operating Systems	Yuzhong Sun Professor, Institute of Computing Technology, Chinese Academy of Sciences
10:20-10:40	Break	
10:40-12:00	Discussions	All participates

12:00pm-2:00pm April 15 2009, Lunch, Quanjude Restaurant

2:00pm-5:00pm April 15 2009, Panel Discussions
Location: FIT 1-415; Chairs: Xiaoge Wang and Rudolf Eigenmann

Time	Title	Speaker
2:00-2:30	Summary Report – Cyberinfrastructure Application Enabling	Barbara Fossum
2:30-2:45	Summary Report – Cyberinfrastructure for Data and HPC	Jason Liu
2:45-3:00	Summary Report –Software Development for Cyberinfrastructure	Carol Song
3:00-4:00	Cyberinfrastructure R&D – a 5 years' Technical Roadmap	All participates
4:00-5:00	Cyberinfrastructure R&D – towards International Collaborations	All participates
5:00	Closing Remarks	Xiaoge Wang and Rudolf Eigenmann