

2013 NCTS Workshop on Numerical Linear Algebra and High Performance Computing (2013 NLA-HPC)

Numerical linear algebra is at the heart of various scientific, engineering, social, and industrial discoveries and achievements. Latest high performance computers have also demonstrated their significances and promising potential in scientific and engineering computing. The 2013 NCTS Workshop on Numerical Linear Algebra and High Performance Computing focuses on researches, developments, and interactions of these two essential disciplines. The workshop also emphasizes numerical linear algebra application problem reformations and algorithm redesigns for efficient usages of high performance computers. The workshop brings researchers from academia, laboratories, and industry to discuss the latest results and contemporary challenges. To promote innovations and breakthroughs in these exciting fields, the main themes of the workshop range from theoretical studies, algorithmic designs, to code implementations of related topics. This workshop is a joint effort with CAM-ICCM to promote applied mathematics.

Invited Speakers

Zhong-Zhi Bai (Chinese Academy of Sciences, China)
Xiao-Chuan Cai (University of Colorado at Boulder, USA)
Raymond Chan (The Chinese University of Hong Kong, China)
Delin Chu (National University of Singapore, Singapore)
James Demmel (University of California, Berkeley, USA)
Jack Dongarra (University of Tennessee, Knoxville, USA)
Iain Duff (Rutherford Appleton Laboratory, Oxfordshire, UK)
Weiguo Gao (Fudan University, China)
Ken Hayami (National Institute of Informatics, Japan)
Feng-Nan Hwang (National Central University, Taiwan)
Xiao-Qing Jin (University of Macau, China)
Bo Kagstrom (Umea University, Sweden)
Yueh-Cheng Kuo (National University of Kaohsiung, Taiwan)
Ren-cang Li (University of Texas, Arlington, USA)
Sherry Xiaoye Li (Lawrence Berkeley National Laboratory, Berkeley, USA)
Wen Li (South China Normal University, Guangzhou, China)

Matthew M. Lin (National Chung Cheng University, Taiwan)
Linzhang Lu (Xiamen University, China)
Takafumi Miyata (Nagoya University, Japan)
Michael Ng (Hong Kong Baptist University, China)
Mila Nikolova (Centre de Mathematiques et de Leurs Applications (CMLA), France)
Luca F. Pavarino (University of Milano, Italy)
Jose Roman (Universitat Politecnica de Valencia, Valencia, Spain)
Tetsuya Sakurai (University of Tsukuba, Japan)
Yangfeng Su, (Fudan University, China)
Yimin Wei (Fudan University, China)
Jungong Xue (Fudan University, China)
Yusaku Yamamoto (The University of Electro-Communications, Japan)
Qiang Ye (University of Kentucky, Lexington, USA)
Bo Yu (Dalian University of Technology, China)
Shao-Liang Zhang (Nagoya University, Japan)

Honorary Chairman

Shing-Tung Yau, Harvard University, USA

Scientific Committee

Zhaojun Bai, University of California, Davis, USA
Wen-Wei Lin, National Chiao Tung University, Taiwan (Chair)
Chi-Wang Shu, Brown University, USA
Weichung Wang, National Taiwan University, Taiwan

Local Organization Committee

Shu-Ming Chang, National Chiao Tung University, Taiwan
I-Liang Chern, National Taiwan University, Taiwan
Tsong-Min Hwang, National Taiwan Normal University, Taiwan
Wen-Wei Lin, National Chiao Tung University, Taiwan (Chair)
Chern-Shuh Wang, National Cheng Kung University, Taiwan (Co-Chair)
Chin-Tien Wu, National Chiao Tung University, Taiwan

Venue:

NCTS, 4th Floor, The 3rd General Building, National Tsing-Hua University, Hsinchu, Taiwan

December 9-12, 2013

