

Third International Conference on ABS and related methods for algebraic equations and optimization

Beijing, May 13-14, 2001

The Third International Conference on ABS and related methods will be held May 14 and 15 at the Academia Sinica in Beijing. Scientific director is prof. Spedicato, of Department of Mathematics, University of Bergamo. Local organizing director is prof. Yuan, head of the Optimization Institute of Academia Sinica. Scientific codirectors are professors Deng of Beijing Agricultural University and Xia of Dalian University of Technology.

The conference follows the two first conferences on ABS methods already organized in China (Loyang, 1991; Beijing, 1995). It aims at presenting recent results in the field on ABS methods and in related fields

(including projection methods, Quasi-Newton methods, Diophantine equations, optimization methods).

Proceedings of the conference will be published.

Invited lectures are expected on the following topics:

- A review of ABS methods for linear systems and optimization (E. Spedicato, Bergamo)
- ABS methods for Diophantine linear equations and inequalities (N. Mahdavi Amiri, Tehran)
- ABSPACK versus LAPACK (A. Del Popolo, Bergamo)
- ABS methods for nonlinear equations and their globalization (L. Luksan, Prague)
- Beyond the Newton's algorithm (N. Deng, Beijing)
- ABS reformulations and extensions of the simplex method (Z. Xia, Dalian)
- ABS reformulations and extensions of active set methods for linearly constrained optimization (L. Zhang, Dalian)
- On some industrial applications of ABS methods (E. Feng, Dalian)

There will be a panel on future trends in ABS research. Contributed papers (20 minutes) can be submitted. The following two special talks will also be given:

- On the route of Gilgamesh travels and on the Chinese origins of the Sumerian and Egyptian civilizations (E. Spedicato)
- Five months trekking along the whole length of the Great Wall (M. Antonelli)

The conference fee, including visits of places near Beijing of historic interest (Great Wall and the Peking Man caves) is set at 200 US dollars for foreign participants. Reduced fee for Chinese and Third World countries participants.

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Notice that a conference on Numerical Linear Algebra and Optimization is organized by prof. Yuan after the ABS conference in Dunhuang, the famous place where the One Thousand Buddhas Cave is located and where a hidden cache of 60.000 manuscript was found about 80 years ago some 1500 years old.