CALL FOR PAPERS

Seventh International Conference on

Domain Decomposition Methods in Scientific and Engineering Computing

Penn State University, University Park, Pennsylvania

October 27–30, 1993

ORGANIZING COMMITTEE:

Chair: J. Xu (Penn State)

Members: D. Arnold, J. Bona, M. Chen, A. Haghighat, J. Shen, S. Tavener.

SCIENTIFIC COMMITTEE:

J. Bramble, T. Chan, R. Chin, P. Deuflhard, R. Glowinski, G. Golub, D. Keyes, Y. Kuznetsov, J. Periaux, A. Quarteroni, O. Widlund, and J. Xu.

CONFERENCE THEMES:

Themes of the conference will range from basic theoretical research to industrial applications related to domain decomposition (DD) methods, including:

- analysis of DD methods
- block and substructuring methods
- multigrid and multilevel methods
- fictitious domain methods
- DD for high order discretizations
- DD methods for nonlinear and time dependent problems
- DD methods in computational fluid dynamics and structural mechanics
- graph decomposition
- general iterative and preconditioning
- parallel implementations
- software developments

CONFERENCE DEADLINES:

Abstracts	May 15, 1993
Lodging Reservations	Sept. 27, 1993
Early Registration	Sept. 27, 1993

CONFERENCE SECRETARY:

Ms. Rosemary Manning
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Penn State University
University Park, PA 16802
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Objective: Domain decomposition describes a class of numerical methods for obtaining solutions of scientific and engineering problems by combining solutions to problems posed on physical subdomains, or, more generally, by combining solutions to appropriately constructed subproblems. It has become a subject of intense interest recently because of its suitability for implementation on high performance parallel computer architectures. The aim of this conference, similar to previous ones in the series, is to bring together researchers with different backgrounds working in this active area to discuss recent and prospective advances and to promote interaction between applied scientists, computer scientists, and numerical analysts.

Format: The conference will feature invited lectures, selected contributed papers and poster presentations.

Conference proceedings: The proceedings of the conference will be published by the American Mathematical Society in the series Contemporary Mathematics. Refereed papers from both invited and contributed talks may appear in the proceedings.

Travel support: A limited amount of fund will likely be available to support travel for graduate students and postdoctoral researchers who lack other applicable funding. To apply, please have a letter of recommendation (preferably by an advisor) sent to the conference secretary.

How to contribute: Potential contributors should submit an abstract of no more than one page by May 15, 1993 (extended) to the conference secretary at the address below.

The submission of the abstract through email is preferred. Plain TeX, AMSTeX and LaTeX are all welcome and sample tex macros are available via anonymous ftp to ftp.math.psu.edu (146.186.131.129) in the directory pub/ddm7. Plain text (ASCII) files are also acceptable.

All submitted abstracts will be reviewed by the Scientific Committee of the conference.

Further information: To obtain further information, or contribute a paper or apply for travel funding, please contact the conference secretary (including your email address, phone and fax numbers). More updated information relevant to the conference may be obtained via anonymous ftp to ftp.math.psu.edu (146.186.131.129) in the directory pub/ddm7.