



# CALL FOR ABSTRACTS

## MIT Student Workshop on High-Performance Computing in Science and Engineering

Saturday, September 27, 1997, MIT Endicott House

### Organizing Committee:

Charles E. Leiserson  
*Program Committee Chair*

Yonald Chery  
*General Chair and  
Webmaster*

Irena Kveraga  
*Administrative and  
Workshop Coordinator*  
irena@lcs.mit.edu

### Invited Speaker:

Cleve Moler  
*Author of MATLAB  
The MathWorks Inc.*

### Program Committee: (with affiliations)

Charles E. Leiserson  
(*EECS/LCS*)

Tomas Arias  
(*Physics/LNS*)

Arvind  
(*EECS/LCS*)

Bonnie Berger  
(*Math/LCS*)

Alan Edelman  
(*Math/LCS*)

John Marshall  
(*EAPS*)

John Negele  
(*Physics/LNS*)

Tony Patera  
(*MechE*)

Jaime Peraire  
(*Aero/Astro*)

Seth Teller  
(*EECS/LCS*)

Jacob White  
(*EECS/RLE*)

The MIT Laboratory for Computer Science is organizing the seventh annual Student Workshop to promote the exchange of ideas among students working in research areas related to high-performance computing in science and engineering. Students — graduate, undergraduate, and postdoctoral — are invited to submit 2-page abstracts describing recent work. Abstracts will appear in proceedings which will be distributed at the workshop, and which will subsequently appear as an LCS Technical Report. About 18 of the submitted abstracts will be selected for presentation. Submissions are encouraged in any area of computing, including (but not limited to):

Algorithms	Fault tolerance
Computational fluid dynamics	Graphics and visualization
Computational modeling	Interconnection networks
Computer architecture	Iterative methods
Computer-aided design	Simulation
Distributed Computing	Storage hierarchies
Error Estimation	

**Submissions:** Authors are requested to submit a single-sided original and 15 double-sided, 3-hole-punched copies of a 2-page abstract. Also, via anonymous ftp to <ftp://theory.lcs.mit.edu/workshop/1997/>, a postscript copy of the abstract *pre-viewable by Ghostview*, and HTML containing abstract title, authors, and links to any home pages. Detailed instructions,  $\text{\LaTeX}$  templates, and HTML templates are available from <ftp://theory.lcs.mit.edu/workshop/1997/instructions/>

Please follow the electronic instructions as closely as possible, as the review and electronic distribution process will be automated. Papers may be submitted for publication only, in which case only one single-sided hardcopy is needed and the submission envelope should be clearly marked with “no talk.”

**Format:** The first page of the abstract must begin with a title, the authors’ names, and MIT and e-mail addresses. Joint submissions by students are acceptable, but the student making the presentation should be listed as first author. Faculty coauthorship is not allowed, although student-written abstracts based on joint work with faculty members are permitted. The abstract should describe the essential ideas in the research and have a short bibliography that includes any papers or technical memoranda on which the abstract is based. Every abstract should have at least one figure, table, diagram, or photograph. A footnote on the bottom of the first page should identify the student’s faculty supervisor and acknowledge research support.

### Addresses and Dates:

Submit Abstracts to:	MIT Student Workshop Room NE43-201 <i>and</i> <a href="http://theory.lcs.mit.edu">theory.lcs.mit.edu</a>
Deadline for Submission:	June 30, 1997
Notification to Presenters:	August 1, 1997
Workshop:	September 27, 1997

**Information:** For further information, send e-mail to: [workshop@theory.lcs.mit.edu](mailto:workshop@theory.lcs.mit.edu), or consult the workshop home page at: <http://theory.lcs.mit.edu/~workshop>