Twelfth Annual Workshop on
High Performance Embedded Computing
23–25 September 2008
Massachusetts Institute of Technology
Lincoln Laboratory

Call for Presentations

The High Performance Embedded Computing (HPEC) technical committee announces the Twelfth Annual HPEC workshop to be held 23–25 September 2008 at MIT Lincoln Laboratory in Lexington, MA. The workshop will give U.S. government-funded researchers from academia, industry and government, working in this important area, an opportunity to discuss techniques, approaches and ongoing developments with relevance to real-time embedded computing and related military applications. During this twelfth year, the HPEC 2008 workshop will have as its theme “Multicore open systems architectures and their impact on DoD HPEC systems.” The technical committee seeks new presentations that clearly describe advances in high performance embedded computing technologies, emphasizing one or more of the following topics:

- Advanced Multicore Software Technology
- Automated Design Tools
- Mapping and Scheduling of Parallel and Real-Time Applications
- Case Studies and Benchmarking of HPEC Applications
- Signal Processing Techniques
- Computing Technologies for Challenging Form Factors
- ASIC and FPGA Advances
- Parallel and Open System Architectures
- Networking and Interconnects
- Fault-Tolerant Computing
- Digital Front-Ends
- Advanced Codesign Techniques
- Technology Trends

All submittals will be competitively reviewed and judged on their technical merit, novelty and relevance to the technical program. Preference will be given to papers with strong, quantitative results. The workshop will have both Open Sessions and Unclassified/U.S. Only sessions, as well as poster presentations. Presenters with significant hardware demonstrations are encouraged to apply to the poster sessions. Since the presentations themselves will constitute the published proceedings, speakers are requested to prepare charts of the highest quality. Electronic copies of the charts presented at the workshop will be included in the workshop proceedings.

Authors are invited to submit two-page extended abstracts via our web site:

http://www.ll.mit.edu/HPEC

For further details about the workshop, please contact

HPEC 08 Workshop Office
Joan Napoli, Supervisor
Lori Tsoulas, Workshop Administrator

Phone: (781) 981-4842
Email: hpec@ll.mit.edu
http://www.ll.mit.edu/HPEC

Important Dates:
Abstract submission deadline 15 May 2008
Notification of acceptances 25 June 2008
The title of your paper goes here in Helvetica 14 pt font; bold, centered across both columns and .5 inch from the top of the page. Use the style “Title” for the title text.

Author 1, Author 2, Author 3, etc. goes here. Author information should include Author’s affiliation(s) and email address(es) and should be in Times 10 pt font and centered under your paper title. Use the style “Authors” for this text.

*Please remove all hyperlinks*

File Naming
When saving your file, please adhere to the following file naming convention: HPEC08_Presenter's Last Name.pdf

Paper Size and Orientation
Your paper size should be 8.5” × 11” with orientation set at portrait. Margins should be at the following setting in Table 1.

<table>
<thead>
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<th>Table 1: Document Margins</th>
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Headings
Section headings should be in Times 12 pt font, bold, and left justified. Use the style “Header _Top” for the headers.

The body of your abstract should consist of two equal-column widths set at 3.35” with a .03” spacing between columns.

The body text (“Body Text” style) should be set at Times 10 pt font and fully justified within each column.

Figure Captions
If figures are used, the figures should fit into the one-column width space. Figure captions (“Caption” style) should be set at Times 9 pt font, bold and centered below the figure as shown:

![Figure 1: Conceptual diagram of system.](image)

Disclaimers and Footnotes
Disclaimers and footnotes (“Footnote Text” style) should be below the body text in the corresponding column. Disclaimers and footnotes should also be fully justified and set in Times 8 pt font as shown below:

References
References should be listed in the format shown below with numbering in square brackets. References (“Reference” style) should be set at Times 9 pt font and fully justified within the column.


Styles in this Template
The following styles are built into this template for ease-of-use. Please do not page-number your abstract.

- **Title** – apply to abstract title section
- **Authors** – apply to author(s) and affiliation(s) section below the title
- **Header _Top** – apply to all your section headers
- **Body Text** – apply to the main body text throughout your abstract and table text
- **Caption** – apply to all image, table & graph captions
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- **Footnote Text** – apply to disclaimers and footnotes
- **Reference** – apply to reference section