

# CALL FOR PAPERS



## 2017 IEEE High Performance Extreme Computing Conference (HPEC '17)

Twenty-first Annual HPEC Conference

12 - 14 September 2017  
Westin Hotel, Waltham, MA USA



[www.ieee-hpec.org](http://www.ieee-hpec.org)

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The IEEE High Performance Extreme Computing Conference (HPEC '17) will be held in the Greater Boston Area, Massachusetts, USA on 12 – 14 September 2017. The HPEC charter is to be the premier conference in the world on the confluence of HPC and Embedded Computing.

The technical committee seeks new presentations that clearly describe advances in high performance extreme computing technologies, emphasizing one or more of the following topics:

- Advanced Multicore Software Technologies
- Case Studies and Benchmarking of Applications
- Automated Design Tools
- Mapping and Scheduling of Parallel and Real-Time Applications
- Computing Technologies for Challenging Form Factors
- ASIC and FPGA Advances
- Open System Architectures
- Data Intensive Computing
- Big Data and Distributed Computing
- Interactive and Real-Time Supercomputing
- Graph Analytics and Network Science
- Fault-Tolerant Computing
- Embedded Cloud Computing
- Digital Front Ends
- General Purpose GPU Computing
- Advanced Processor Architectures
- Secure Computing & Anti-Tamper Technologies
- New Application Frontiers
- High Performance Data Analysis
- Cloud HPEC
- Big Data Meets Big Compute

HPEC accepts two types of submissions:

1. Full papers (up to 6 pages, references not included), and
2. Extended abstract (up to 2 pages, references included).

### IMPORTANT DATES:

Submission Deadline Extended to: **May 27, 2017**

Notification of Acceptance: **June 16, 2017**

Preference will be given to papers with strong, quantitative results, demonstrating novel approaches or describing high quality prototypes. Authors of full papers can mark their preference for a poster display or an oral presentation. Presenters who wish to have hardware demonstrations are encouraged to mark their preference for a poster display. Accepted extended abstracts will be displayed as posters. All paper and extended abstract submissions must use the approved IEEE templates. Full paper submissions with the highest peer review ratings will be published by IEEE in the official HPEC proceedings available on IEEE eXplore. All other accepted submissions and extended abstracts are published on [ieee-hpec.org](http://ieee-hpec.org).

Vendors are encouraged to sign up for vendor booths at <http://www.ieee-hpec.org/submitdemo.htm>. This will allow vendors to present their HPEC technologies in an interactive atmosphere suitable for product demonstration and promotion.

**Administrative Contact**  
*Mr. Robert Alongi*  
 IEEE Boston Section

We welcome input ([hpec@ieee-hpec.org](mailto:hpec@ieee-hpec.org)) on tutorials, invited talks, special sessions, peer reviewed presentations, and vendor demos. Instructions for submitting will be posted on the conference web site shortly.

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