ACM International Conference on Computing Frontiers
CALL FOR PAPER 2017

May 15 – 17, 2017, Siena, Italy
http://www.computingfrontiers.org

The next ACM International Conference on Computing Frontiers will be held May 15-17 in Siena, Italy. Computing Frontiers is an eclectic, collaborative community of researchers who investigate emerging technologies in the broad field of computing: our common goal is to drive the scientific breakthroughs that transform society. Technology is experiencing revolutions in memory devices and systems, networks, electronic device production, machine learning, data analytics, cloud computing, techniques to improve power and energy efficiency, systems portability/wearability, to name but a few areas. New application domains that affect everyday life are emerging, especially in this era of highly interconnected and collaborative cyber-physical systems. Boundaries between the state -of-the-art and revolutionary innovation constitute the frontiers that mark the advances of science, engineering, and information technology. Early research that envisions future technologies provides the bases that allow novel materials, devices, and systems to become mainstream. Collaborative efforts among researchers with different expertises and backgrounds enables revolutionary scientific breakthroughs that lead to innovative solutions over a wide spectrum of computer systems, from embedded and hand-held/wearable devices to supercomputers and data centers.

TOPICS OF INTEREST

We seek original research contributions at the frontiers of a wide range of topics, including novel computing paradigms, computational models, algorithms, application paradigms, development environments, compilers, operating environments, computer architecture, hardware substrates, memory technologies, and smarter life applications

Algorithms and Models of Computing	Large-Scale System Design
Biological Computing Models	Compiler Technologies
Uses of Technology Scaling	Security
Embedded and Cyber-Physical Systems	Computers and Society
Big Data Analytics	Interdisciplinary Applications
Machine and Deep Learning	

IMPORTANT DATE

Submissions Deadline: Febbrary 3, 2017
Author Notification: March 14,2017

Camera-Ready Papers Due: April 4,2017
Conference Dates: May 15,2017

WORKSHOP

We are pleased to host the following co-located workshops:
 - Big Data Analytics (BigDAW '17)
 - Design of Low Power Embedded Systems (LP-EMS '17)
 - Malicious Software and Hardware in the Internet of Things (MAL-IoT '17)

SUBMISSION

Authors are invited to submit full papers, position papers, trend papers, and poster abstracts to the main conference. Papers must be submitted through the conference submission website: https://easychair.org/conferences/?conf=cf17. Authors must declare in advance to which category they are submitting. Full papers are a maximum of **eight (8) double-column pages** in ACM conference format. Authors may purchase up to **two (2) additional pages** at 100 Euro per page. Authors can submit full papers of up to 10 double-column pages, provided that they agree to pay for the additional pages if the paper is accepted. All other types of submissions should be at least two (2) pages and not more than four (4) pages in the same format. These limits include figures, tables, and references. Our review process is **double-blind**: please remove all identifying information from the paper submission (and cite your own work in the third person). Authors of interesting work not mature enough for an oral presentation may be offered the option of presenting their work as posters. Position papers, trend papers, poster abstracts, and workshop papers will be published in the proceedings and in the ACM Digital Library. As per ACM guidelines, at least one unique author of each accepted paper is required to register for the conference. Selected papers from the Computing Frontiers 2017 conference will be invited to extend their work for publication in a special issue of the Springer Journal of Signal Processing Systems (JSPS).

GENERAL CHAIR
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