Call for Papers
NANOARCH 2017
13th ACM/IEEE International Symposium on Nanoscale Architectures
July 25-26, 2017, Newport, USA
http://nanoarch.org

This 13th symposium will incorporate several exciting special sessions (e.g., beyond charge-based computing, benefits and challenges with emerging memory devices, and nanoelectronics for biomedical systems) and opportunities for interaction. In addition to Regular Papers (of up to 6 pages in length), we also invite 2-page Concept Papers in the area of nanofabrication, nano-computing, and emerging applications of nanosystems for presentation in Special Sessions. These concept papers would present less developed but radical and highly innovative work.

NANOARCH is the annual cross-disciplinary forum for the discussion of novel post-CMOS and advanced nanoscale CMOS directions. The symposium seeks papers on innovative ideas for solutions to the principal challenge facing integrated electronics in the 21st century how to design, fabricate, and integrate nanosystems to overcome the fundamental limitations of CMOS. In particular, such systems could as follow:
1. contain unconventional nanodevices with unique capabilities, including directions beyond simple switches,
2. introduce new logic and memory concepts,
3. involve novel circuit styles,
4. introduce new concepts for computing,
5. explore security architectures with nanotechnology,
6. reconfigure and/or mask faults at much higher rates than in CMOS,
7. involve new paradigms for manufacturing, and
8. rethink the methodologies and design tools involved.

Important Dates
Paper submission: April 29, 2017
Acceptance notification: May 22, 2017
Early registration deadline: June 7, 2017
Final version: June 7, 2017

Authors are invited to submit papers of up to 6 pages in length for the Regular Paper Sessions and 2 pages in length for the Concept Paper Sessions in PDF version, double column, IEEE format, with a minimum font size of 10 points on the symposium submission website. Author may choose to make submissions anonymous, although that is not mandatory. The electronic submission will be considered evidence that upon acceptance, the author(s) will present their paper at the symposium. Accepted papers will be considered for the NANOARCH Best Paper Awards. Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

General Chairs: Csaba Andras Moritz, UMass Amherst, USA
Program Chairs: Christof Teuscher, Portland State University, USA
Lorena Anghel, Grenoble Institute of Technology, France