

## Call For Papers

### 2017 ACM/IEEE Workshop on Variability Modeling and Characterization (VMC)

Co-located with ACM/IEEE ICCAD, November 16, 2017, Irvine, CA, USA

<http://www.cerc.utexas.edu/utda/vmc/>

#### Background

Variability has emerged as a fundamental challenge to IC design in scaled CMOS technology; and it has profound impact on nearly all aspects of circuit performance. While some of the negative effects of variability can be handled via improvements in the manufacturing process, comprehensive methods are necessary to assess and manage the negative effects of variability, which in turn requires accurate and tractable variability models. The goal of the VMC workshop is to provide a forum for theoreticians and practitioners to freely exchange opinions on current practices as well as future research needs in variability modeling and characterization.

The workshop organizers strongly encourage the submission of *early* results in the related topics. The submissions will be evaluated by the Technical Program Committee, and the author(s) of the accepted submissions are expected to present the results in the format of posters and few-minutes introductory presentations at the workshop. Proceedings of the workshop are limited to the attendees.

#### Topics

1. Fundamental physics of device variability
2. Compact variability modeling development and applications
3. Statistical extraction of variability
4. Variability test structure design and calibration
5. Design interface with manufacturing and solutions for variability
6. Variability issues in emerging semiconductor technology
7. Temporal variability issues
8. Reliability considerations that may be closely related to variability
9. Variability in computing and systems



#### Technical Program Committee

##### Co-chairs:

Abe Elfadel, Masdar Institute, Abu Dhabi  
Takashi Sato, Kyoto University, Japan  
Rasit O. Topaloglu, IBM, USA

##### Members:

Yu Cao, Arizona State University, USA  
Chris Kim, University of Minnesota, USA  
Colin McAndrew, Freescale, USA  
Subhashish Mitra, Stanford University, USA

Hidetoshi Onodera, Kyoto University, Japan  
David Pan, UT Texas, USA  
Vijay Reddy, Texas Instruments, USA

#### Submission

Two page maximum in US Letter or A4 format.  
Submit your work here:

<https://easychair.org/conferences/?conf=vmc17>

**Submission:** September 15, 2017

**Acceptance:** October 1, 2017