



**21<sup>st</sup> ISQED Conference to Commence with focus on Quantum Computing, Security, & AI/ML & Electronic Design**

*March 25-26, 2020, Santa Clara Convention Center, Santa Clara, California*

**SANTA CLARA**, California –25 Feb. 2019 – The 21<sup>st</sup> annual [International Symposium on Quality Electronic Design](#) (ISQED’20), will commence on March 25 with special focus on Quantum Computing, Security, & AI/ML & Electronic Design. The premier electronic design quality conference, recently announced its [2020 program](#) consisting of talks by experts that cover multiple topics related to electronic design, and semiconductor technology.

“The industry has slowly started to realize the importance of the concept of quality in electronic design and hyper critical role it plays in creation of secure, reliable, manufacturable, and user friendly circuits and systems”, said [Dr. Ali Iranmanesh](#), the conference founder and president of the International Society for Quality in Electronic Design. “Prior to inception of ISQED in 1998, the lexicon of technical terminologies, hardly contained any combination of “Quality”, “Design”, and “Electronic” words. Terms such as “Quality Electronic Design”, “Quality in Electronic Design”, etc. could not be found in any internet search. Then, the concept of “Quality” in design of integrated circuits and systems was a foreign concept that confused even the ardent industry practitioners”.

[ISQED](#) convenes Wednesday, March 25 through Thursday, March 26, 2020 at Santa Clara Convention Center, Santa Clara, CA. The event includes free admission to keynote presentations. For information and registration visit [www.isqed.org](http://www.isqed.org).

**Conference Highlights**

[ISQED](#) features twenty technical sessions with near 100 peer-reviewed papers, as well as keynotes, invited speeches, and embedded tutorials, all with a focus on the latest innovations and developments in electronic design and semiconductor technology. Few conference highlights are as follows:

**Keynote Speaker**

**[Security as the Enabler of Quality Electronics](#)**

**Dr. Chi-Foon Chan, President and co-CEO, [Synopsys](#)**

**[Re-Engineering Computing with Neuro-Inspired Learning: Devices, Circuits, and Systems](#)**

**Prof. Kaushik Roy - Edward G. Tiedemann Jr. Distinguished Professor, [Purdue University](#)**

**[Semiconductors for and by AI](#)**

**Anwar Awad - Vice President, Infrastructure and Platform Solutions Group,  
General Manager, Mixed-Signal IP Solution Group, [Intel](#)**

**[Active Learning for Fast, Comprehensive SPICE Verification](#)**

**Jeff Dyck, Director of Engineering - [Mentor, a Siemens Business](#)**

## Spintronic Devices for Memory, Logic, and Neuromorphic Computing

Joseph S. Friedman - Assistant Professor, Director of the NeuroSpinCompute Laboratory,  
Department of Electrical & Computer Engineering, [The University of Texas at Dallas](#)

### Panel Discussion

**Driving forward: Is autonomous vehicle development heading towards a crash?**

*Panelists:*

*Nirmal R. Saxena* - [NVIDIA](#)

*Jan-Philipp Gehrman* - [NXP](#)

*Burkhard Huhnke* - [Synopsys](#)

*Vaibhav Garg* - [Texas Instruments](#)

*Lee Harrison* - [Mentor, A Siemens Business](#)

### Embedded Tutorials

**Abundant-Data Computing: The N3XT 1,000X**

*Prof. Subhasish Mitra*, [Stanford University](#)

**Energy-efficient Secure Circuits for Entropy Generation & Cryptography**

*Dr. Sanu Mathew*, [Intel](#)

**EDA for Quantum Computing**

*Dr. Leon Stok*, [IBM Corp., Poughkeepsie, NY](#)

**Bitcoin Demystified: Disrupting Technology or Mafia Haven?**

*Dr. Eric Peeters*, [Texas Instruments](#)

“We are pleased to see an increase in the number of papers submitted to the conference this year”, said Steven Heinrich-Barna, ISQED’20 General chair. “The two-day technical program with four parallel sessions packs over 80 peer-reviewed papers highlighting the latest trends in electronic circuit and system design & automation, testing, verification, sensors, security, semiconductor technologies, cyber-physical systems, etc.”

### **About ISQED**

The 21st International Symposium on Quality Electronic Design (ISQED’20) is the premier interdisciplinary and multidisciplinary Electronic Design conference. ISQED’20 is held with the technical sponsorship of IEEE CASS, IEEE EDS, and IEEE Reliability Society. [ISQED](#) Corporate sponsors are [Synopsys](#) and [Mentor, a Siemens Business](#).