# IEEE International Conference on Rebooting Computing 2016

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# Call for Papers

## October 17-19, 2016

## Hilton San Diego Del Mar, Del Mar, CA, USA

**Conference Chair:** Stan Williams
*Hewlett Packard Enterprise*

**Rebooting Computing Co-Chairs:**
Tom Conte, Computer Society,
*Georgia Institute of Technology*
Elie Track, Council on Superconductivity,
*nVizix*

### Important Dates

**June 3, 2016:** Short **and** Full Paper Submissions due

**June 20, 2016:** Acceptance Notification of Papers

**July 29, 2016:** Final Paper Submissions due

**September 1, 2016:** Early registration deadline

**October 17-19, 2016:** Dates of Conference

### For more information

Visit icrc.ieee.org

Email rcinfo@ieee.org

### Sponsors

**Overview**: The goal of the first IEEE International Conference on Rebooting Computing (ICRC 2016) is to discover and foster novel methodologies to reinvent computing technology, including new materials and physics, devices and circuits, system and network architectures, and algorithms and software. This conference seeks input from a broad technical community and builds on a series of four exploratory, invitation-only Rebooting Computing Summits held from 2013 through 2015.

**Program Highlights**

- Keynotes and Invited Speakers
- Paper Presentations

**Topics of interest**

We invite submissions related to ***fundamentally new ways to compute***. Topics include, but are not limited to:

- Neuromorphic, or "brain inspired", computing
- Approximate and stochastic computing
- Optical computing
- Quantum computing
- Reversible and adiabatic computing
- Cellular Neural/Nonlinear Networks (CNN) and Cellular Automata
- Nonlinear Dynamical Systems and Edge of Chaos
- Superconducting or cryogenic computing
- Error-tolerant logic and circuits
- In-memory processing
- Extending Moore's law and augmenting CMOS
- Novel device physics and materials including spin-based electronics

**Submission information**

Authors may submit either Full Papers or Short Papers following the Authors' guidelines at http://icrc.ieee.org/authors-guidelines/