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 computation
• 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 must submit abstracts with name and contact information following the Authors’ guidelines at http://icrc.ieee.org/authors-guidelines/