BEYOND!

von Neumann Computing

Topics

- Brain inspired computing concepts
- Beyond von Neumann hardware
- Spatio-temporal networks as neuromorphic hardware
- Delay networks as neuromorphic hardware
- Novel devices for hardware neurons

Organizers

Stuart Parkin, Director ICNS
Daniel Brunner, FEMTO-ST, Besançon, France

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Out-of-the-box thinking, highly motivated young scientists are especially welcome to register.

Feel free to share your motivation with us!

Speakers

Bhavin J. Shastri | Princeton University, USA
Daniel Brunner | FEMTO-ST, Besançon, France
Damien Querlioz |University of Paris-Sud, France
Guy Van der Sande | Vrije Universiteit Brussel
Herbert Jaeger | Jacobs University, Bremen, Germany
Ingo Fischer | IFISC (UIB-CSIC), Palma de Mallorca, Spain
Jacob Torrejon | CNRS (Thales Lab), Université de Paris Sud, France
Julien Sylvestre | Université de Sherbrooke, Canada
Laurent Larger | FEMTO-ST, Besançon, France
Leslie Valiant | Harvard University, USA
Marc Timme | Max Planck Institute for Dynamics and Self-Organization, Germany
Serge Massar | Université Libre de Bruxelles, Belgium
Peter Bienstmann | Ghent University, Belgium
Robert Legenstein | Graz University of Technology, Austria
Simon Thorpe | Université Toulouse III - Paul Sabatier, France
Steve Oh | A*STAR, Bioprocessing Technology Institute, Singapore

Participation

The workshop covers materials, devices and architectures that could enable beyond von Neumann computing via Neuromorphic systems.

Radically new approaches are essential for creating next generation information processing technology.

We are looking for enthusiastic participants from all around the world who like exploring innovative ideas and foster collaboration.

In case of a successful admission we do cover your on-site costs.

Harnack-Haus, Berlin
May 18th-21st, 2016

MAX PLANCK INSTITUTE OF MICROSTRUCTURE PHYSICS

NISE NANO-SYSTEMS FROM IONS, SPINS AND ELECTRONS

ICNS INTERNATIONAL CENTER FOR NANO-SYSTEMS

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