

## **Roadmap for Smart Society by Synergies with Cloud and IoT edges**

### **~Future Prediction by Points of View from Computer Science and Semiconductor Physics~**

<https://meeting.jsap.or.jp/english/special-symposium>

Date: March 17<sup>th</sup>, Saturday, 2018

Venue: Waseda University, Tokyo

<https://meeting.jsap.or.jp/english/access-venue>

12:58-: Opening remarks, Toshiro Hiramoto, Executive Director of JSAP, Univ. of Tokyo

12:59-: Greeting, Fernando Guarin, IEEE/EDS President, GLOBALFOUNDRIES

13:00-: "Overall introduction of IRDS/SDRJ activities in 2017 including SA,"

Yoshihiro Hayashi, SDRJ Chair, Renesas Electronics Corporation

13:30-: "Roadmapping Applications Benchmarking: Challenges and Predictions",

Tom Conte, IRDS-AB Chair, Georgia Institute of Technology

14:00-: "Challenges for Communication Between Systems Through 2033",

Michael Garner, IRDS-OSC Chair, Garner Nanotechnology Solutions

14:30-: "Topical issues in wireless access networks towards 2020 and beyond,"

Takashi Shimizu, NTT

15:00-: Break

15:15-: "More Moore; The Transformation of Moore's Law, 2D Scaling to be replaced  
by Functional and Power Scaling with 3D Technology,"

Yuzo Fukuzaki, Sony Semiconductor Solutions Corporation

15:45-: "Technology Trends in Advanced Lithography," Hidemi Ishiuchi, EIDEC

16:00-: "Beyond CMOS (Emerging Research Devices and Materials) for Non von Neumann  
Architecture,"

Hiro Akinaga, AIST, and Ken Uchida, Keio University

16:30-: "Critical issues in contamination control for advanced LSI processing,"

Koichiro Saga, Sony Semiconductor Solutions

16:45-: "ESH/FI challenges to support manufacturing next generation devices,"

Supika Mashiro, Tokyo Electron

17:00-: "Metrology requirements and potential solutions for next generation devices ,"

Koichi Sejima, Sony Semiconductor Solutions Corporation

17:15-: Panel discussion on Roadmap with ALL SPEAKERS

17:45-17:46: Closing, Yoshihiro Hayashi, SDRJ Chair, Renesas Electronics Corporation

Organizers:

Hitoshi Wakabayashi, Tokyo Institute of Technology

Tetsuya Tatsumi, Sony Semiconductor Solutions Corporation

Manabu Tsujimura, Ebara Corporation