

2016

International Workshop for Ultra Low Power Nano-electronics for IoT

October 18-19, 2016

International Conference room, 6th Floor, HIT Bldg., Hanyang University, Seoul, Korea

Scientific Program

Memory devices, analog design and technologies(October 18th)

Capacitor-less memory: advances and challenges

Prof. Francesco Gamiz (*Univ. of Granada, Spain*)

Technology options for high energy efficiency with FDSOI

Dr. Fred Allibert (*SOITEC, France*)

Low-power analog design fundamentals

Prof. Bram Nauta (*Univ. of Twente, Netherlands*)

Steep-slope transistor concepts for low-power CMOS

Prof. Jurriaan Schmitz (*Univ. of Twente, Netherlands*)

Sharp switching devices based on band modulation

Prof. Sorin Cristoloveanu (*Grenoble INP Minatec, France*)

Technology Challenges and Opportunities of Mobile Memory

Dr. Seok-Hee Lee (*SK Hynix, Korea*)

Off the beaten CMOS path(October 19th)

Non-Si MOSFET and TFET for low-power circuits

Prof. Shinichi Takagi (*Univ. of Tokyo, Japan*)

Synaptic devices and neuron circuits for neuromorphic chips

Prof. Byung-Gook Park (*Seoul National Univ., Korea*)

Taking Gallium Nitride HEMTs into the THz

Prof. Debdeep Jena (*Cornell Univ., USA*)

Charge Trapping and Time-dependent Variability in Low-Voltage MOS Transistors

Prof. Tibor Grasser (*Technical Univ. of Vienna, Austria*)

Photonics on CMOS is Key Enabling Technology for innovation

Dr. Maryse Fournier (*LETI, France*)

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