

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

K. Memory (Design & Process Technology) 분과

[TK1-K] New Memories for Neuromorphic and Reconfigurable Systems

Date	Feb. 25, 2014 (Tue.)
Place	Room K / 제1공학관 502호 (# 502, Engineering Building I)

Session Chair: 민경식 교수(국민대학교),

- TK1-K-1 09:30-10:00 멤리스터 브리지 시냅스를 사용한 생체형 병렬 영상처리 시스템**
저자: Hyongsuk Kim, Maheshwar Sah, and Changju Yang
소속: Div. of Electronics Engineering, Chonbuk National University
- TK1-K-2 10:00-10:15 Emulation of Spike-Timing Dependent Plasticity in Phase-Change Memory Cells for Neuromorphic Applications**
저자: Dae-Hwan Kang, Hyun-Goo Jun, Kyung-Chang Ryoo, Jae Hee Oh, and Hongsik Jeong
소속: Flash PA, Memory Div. Semi. Biz. SEC
- TK1-K-3 10:15-10:30 Improved Synaptic Characteristics of Filamentary ReRAM by Adopting Interfacial Oxide for Neuromorphic Device Application**
저자: Behnoush Attarimashalkoubeh, Sangheon Lee, Daeseok Lee, Amit Prakash, Jeonghwan Song, Kibong Moon, and Hyunsang Hwang
소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
- TK1-K-4 10:30-10:45 Improvement in the ON/OFF Ratio ($\sim 10^7$) and Switching Uniformity of an Atom Switch Using TiO_x Layer for Reconfigurable Logic Application**
저자: Behnoush Attarimashalkoubeh, Amit Prakash, Sangheon Lee, Jaesung Park, Jeonghwan Song, Daeseok Lee, Jiyoung Woo, Kibong Moon, Yunmo Koo, and Hyunsang Hwang
소속: Department of Materials Science and Engineering, Pohang University of Science and Technology