2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

Future Normal in Semiconductor

2025년 2월 14일(금), 09:00-10:45 Room A(그랜드볼룸 I), 4층

K. Memory (Design & Process Technology) 분과

O41_[FA1-K] Security Applications and Reliability of Emerging Memory

좌장: 김형진 교수(한양대학교), 김경민 교수(KAIST) Designing Memristive Baffle Systems via Material and Simulation Co-Design and Their Implementation for Enhancing Synaptic Linearity FA1-K-1 Characteristics 09:00-09:15 Eun Young Kim, Juseong Park, Sumin Ju, Woojoon Park, Woon Hyung Cheong, Myeongchan Ko, and Kyung Min Kim **KAIST** Leakage Current Estimation of CVD-grown MoS₂ Based 2TOC DRAM and Retention Limitation by Read Transistor Degradation FA1-K-2 Changiun Lee^{1,3}, Jisoo Seok², and Jiwon Chang^{1,2,3} ¹Department of System Semiconductor Engineering, Yonsei University, ²Department of 09:15-09:30 Materials Science and Engineering, Yonsei University, ³BK21 Graduate Program in Intelligent Semiconductor Technology In-Series Phase-Change Memory Pair for Enhanced Data Retention and Large Window in Automotive Application FA1-K-3 Sejeung Choi¹ and Sangbum Kim^{1,2,3} 09:30-09:45 ¹Department of Materials Science and Engineering, College of Engineering, Seoul National University, ²Research Institute of Advanced Materials, Seoul National University, ³Inter-university Semiconductor Research Center, Seoul National University True Random Number Generator using Random Telegraph Noise Signal of Memristor with Tolerance FA1-K-4 Dayeon Yu and Hyungjin Kim 09:45-10:00 Division of Materials Science and Engineering and Department of Semiconductor Engineering, Hanyang University Heterogeneous Data Clustering and Outlier Detection with Multifunctional Memristive Array FA1-K-5 Dong Hoon Shin, Sunwoo Cheong, Néstor Ghenzi, and Cheol Seong Hwang 10:00-10:15 Department of Materials Science and Engineering and Inter-University Semiconductor

Research Center, Seoul National University



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FA1-K-6 10:15-10:30	True Random Number Generator using Memcapacitor based on Flash Cell Hwiho Hwang, Sangwook Youn, and Hyungjin Kim Division of Materials Science and Engineering and Department of Semiconductor Engineering, Hanyang University
FA1-K-7 10:30-10:45	Enhanced Cryogenic Stability and Endurance of CMOS-Compatible HfZrO ₂ FeCAPs with Optimized WO Buffer layer Eunjin Kim and Jiyong Woo School of Electronic and Electrical Engineering, Kyungpook National University