2023년 2월 14일(화), 09:00-10:45

Room G (스페이드 II+III, 6층)

K. Memory (Design & Process Technology) 분과
[TG1-K] RRAM and Synapse Device I

좌장: 김상범 교수(서울대학교), 정성엽 박사(차세대융합기술연구원)

TG1-K-1 09:00-09:15	**Trade-off of Synaptic Characteristics depending on Reservoir Layer in Oxygen Based ECRAM** Hyejin Kim, Jongseon Seo, Seojin Cho, Hyeonseok Sin, Sungyun Choi, and Daeseok Lee *Department of Electronic Materials Engineering, Kwangwoon University*
TG1-K-2 09:15-09:30	**Hardware Convolutional Kernels with Reliable PrCaMnO$_x$-Based RRAM Array for Neuromorphic Image Processing** Eunryeong Hong[1], Seonuk Jeon[2], Heebum Kang[1], Hyun Wook Kim[1], Nayeon Kim[2], Kibong Moon[3], and Jiyong Woo[1,2] *[1]School of Electronic and Electrical Engineering, Kyungpook National University, [2]School of Electronics Engineering, Kyungpook National University, [3]Department of Materials Science and Engineering, POSTECH*
TG1-K-3 09:30-09:45	**Simulation of Synaptic Characteristics of Memristor based on Interfacial Switching Mechanism** Sagar Khot, Dongmyung Jung, and Yongwoo Kwon *Department of Materials Science and Engineering, Hongik University*
TG1-K-4 09:45-10:00	**균일한 두께의 그래핀 옥사이드 저항변화층을 가지는 RRAM 기반 시냅스 소자** Hyun-Seok Choi[1], Suck Won Hong[2], and Yoon Kim[1] *[1]Department of Electrical and Computer Engineering, University of Seoul, [2]Department of Cogno-Mechatronics Engineering, Pusan National University*
TG1-K-5 10:00-10:15	**Transparent and Flexible Memristor with Stable Memory Characteristics by Utilizing CuI Deposition based on Low Temperature Solution** Yongin Cho, Arindam Bala, and Sunkook Kim *School of Advanced Materials Science and Engineering, Sungkyunkwan University*
TG1-K-6 10:15-10:30	**Fully Parallel, Highly Linear Synaptic Weight Update Enabled by Ion-limited CuO$_x$/HfO$_x$/WO$_x$ ECRAM Synapse for Neuromorphic Systems** Heebum Kang[1], Hyun Wook Kim[1], Eunryeong Hong[1], Nayeon Kim[2], Seonuk Jeon[2], and Jiyong Woo[1,2] *[1]School of Electronic and Electrical Engineering, Kyungpook National University, [2]School of Electronics Engineering, Kyungpook National University*
TG1-K-7 10:30-10:45	**Implementation of Motion Detection by Highly Uniform Dynamic Memristor** Min Gu Lee, Hanchan Song, Gwangmin Kim, and Kyung Min Kim *Department of Materials Science and Engineering, KAIST*