2024년 1월 **24**일(수)-**26**일(금) | 경주화백컨벤션센터(HICO)

2024년 1월 25일(목), 15:30-17:15 Room G(201),2층

K. Memory (Design & Process Technology) 분과 [TG3-K] RRAM and Neuromorphic Device III

좌장: 김성준 교수(동국대학교), 권민우 교수(강릉원주대학교)

소성: 김성군 교수(동국대학교), 권민우 교수(강등원수대학교 	
TG3-K-1 15:30-15:45	Optimized Chalcogenide Medium for Inherently Activated Resistive Switching Device Jin Joo Ryu ^{1,2} , Taeyong Eom ¹ , Hyunchul Sohn ² , and Gun Hwan Kim ^{2,3} ¹ Thin Film Materials Research Center, KRICT, ² Department of Materials Science and Engineering, Yonsei University, ³ Department of System Semiconductor Engineering, Yonsei University
TG3-K-2 15:45-16:00	Pseudo Synaptic Sampling: Energy-Efficient Algorithm for Spiking Hyunwoo Kim, Suyeon Jang, Uicheol Shin, and Sangbum Kim Department of Material Science and Engineering, Seoul National University
TG3-K-3 16:00-16:15	Design and Hardware Implementation of Memristive Based Neural Networks for Efficient Neuromorphic Computing Jae Gwang Lim ^{1,2} , Keonhee Kim ^{1,2} , Sung Jae Park ^{1,2} , Gyutaek Oh ¹ , Yeonjoo Jeong ¹ , Jaewook Kim ¹ , Su youn Lee ¹ , Joon Young Kwak ¹ , Jongkil Park ¹ , Gyu Weon Hwang ¹ , Kyeong-Seok Lee ¹ , Seongsik Park ¹ , Hyun Jae Jang ¹ , Byeong-Kwon Ju ² , Jong Keuk Park ¹ , and Inho Kim ¹ ¹ Center for Neuromorphic Engineering, KIST, ² Display and Nanosystem Laboratory, School of Electrical Engineering, Korea University
TG3-K-4 16:15-16:30	Implementing a Scalable Neural Network at the Device Level Using a 3D Vertical Structure for PIM Seojin Cho, Hyejin Kim, Minsu Kang, Sooho Kim, Sion Kim, Yuna Kim, and Daeseok Lee Department of Electronic Materials Engineering, Kwangwoon University
TG3-K-5 16:30-16:45	Unipolar and Bipolar 1S1M-Based MC-Dropconnect Hardware Implementation Do Hoon Kim, Woon Hyung Cheong, Hanchan Song, Jae Bum Jeon, and Kyung Min Kim KAIST



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TG3-K-6 16:45-17:00	Effect of the SiO ₂ Film Formation Process on the Recognition Rate in
	Pd/IGZO/SiO ₂ /p ⁺ -Si Memristors for Artificial Neural Network
	Application
	Dong Hyeop Shin, Seung Joo Myoung, Changwook Kim, Jong-Ho Bae, Sung-Jin
	Choi, Dong Myong Kim, and Dae Hwan Kim
	School of Electrical Engineering, Kookmin University
	Sound Localization Using Brain-inspired Memristive Delay System for
TG3-K-7	Active Speaker Detection
17:00-17:15	Hanchan Song, Mingu Lee, Woojoon Park, Gwangmin Kim, and Kyung Min Kim
	Department of Materials Science and Engineering, KAIST