



K. Memory (Design & Process Technology) 분과

2019년 2월 14일(목), 09:00-10:45

Room A (아라홀, 2층)

[TA1-K] Neuromorphic Computing

좌장: 강명곤 교수(한국교통대학교), 김수길 수석(SK하이닉스)

<p>TA1-K-1 09:00-09:30</p>	<p>[초청] Memory-Centric Neuromorphic Processor Design Vladimir Kornijcuk¹, Jaewook Kim¹, Joon Young Kwak¹, Jongkil Park¹, and Doo Seok Jeong² <i>¹Center for Electronic Materials, KIST, ²Division of Materials Science and Engineering, Hanyang University</i></p>
<p>TA1-K-2 09:30-09:45</p>	<p>Proton-Based Three-Terminal Synapse Device with Analog Conductance Change and Linear I-V Characteristics for Neuromorphic Systems Jongwon Lee, Myonghoon Kwak, Seokjae Lim, and Hyunsang Hwang <i>Center for Single Atom-based Semiconductor Device, and also Department of Material Science and Engineering, POSTECH</i></p>
<p>TA1-K-3 09:45-10:00</p>	<p>Influence of the Oxygen Content in IGZO on the Pattern Recognition Rate in Pd/IGZO/p+-Si Memristors Donguk Kim, Jun Tae Jang, Jungi Min, Jingyu Park, Dong Myong Kim, Sung-Jin Choi, Hyun-Sun Mo, and Dae Hwan Kim <i>School of EE, Kookmin University</i></p>
<p>TA1-K-4 10:00-10:15</p>	<p>Two-Terminal Perpendicular Spin-Transfer-Torque(p-STT) Based Neuron with p-STT Magnetic-Tunneling-Junction (MTJ) Spin-Valve Sunhwa Jung², Kei Kondo¹, Jin-Young Choi¹, Jong-Ung Baek², Han-sol Jun², Tae-Hun Shim¹, and Jea-Gun Park^{1,2} <i>¹Department of Electronics and Computer Engineering, Hanyang University, ²Department of Nanoscale Semiconductor Engineering, Hanyang University</i></p>
<p>TA1-K-5 10:15-10:30</p>	<p>Development of Self-Rectifying TaO_y/Nanoporous TaO_x Memristor Synapse for Suppressing Non-Neural Signal in the Large-Scale Neuromorphic Array System Sanghyeon Choi¹, Seonghoon Jang¹, Jung-Hwan Moon², Jong Chan Kim³, Hu Young Jeong³, Peonghwa Jang², Kyung-Jin Lee^{1,2}, and Gunuk Wang¹ <i>¹KU-KIST Graduate School of Converging Science and Technology, Korea University, ²Department of Materials Science and Engineering, Korea University, ³UCRF and School of Materials Science and Engineering, UNIST</i></p>
<p>TA1-K-6 10:30-10:45</p>	<p>Effects of Pulse Amplitude on Conductance Change of TiO_x-Based Synaptic Devices Tae-Hyeon Kim, Min-Hwi Kim, Suhyun Bang, Dong Keun Lee, and Byung-Gook Park <i>Department of Electrical and Computer Engineering, IISRC, Seoul National University</i></p>