



제 30회 한국반도체학술대회

The 30th Korean Conference on Semiconductors

2023년 2월 13일(월)~ 15일(수) | 강원도 하이원리조트(그랜드호텔 컨벤션타워)

2023년 2월 15일(수), 09:00-10:30

Room D (사파이어 II+III, 5층)

J. Nano-Science & Technology 분과

[WD1-J] Neuromorphic Devices

좌장: 이철호 교수(고려대학교), 이관형 교수(서울대학교)

<p>WD1-J-1 09:00-09:30 [초청]</p>	<p>Simultaneous Emulation of Synaptic and Intrinsic Plasticity Using a Memristive Synapse Keon Jae Lee <i>Department of Materials Science and Engineering, KAIST</i></p>
<p>WD1-J-2 09:30-10:00 [초청]</p>	<p>Energy-efficient Neuromorphic Systems Driven by Emerging Device Technologies Hyun Wook Kim¹, Eunryeong Hong¹, Seonuk Jeon², Heebum Kang¹, Nayeon Kim², and Jiyong Woo^{1,2} ¹<i>School of Electronic and Electrical Engineering, Kyungpook National University,</i> ²<i>School of Electronics Engineering, Kyungpook National University</i></p>
<p>WD1-J-3 10:00-10:15</p>	<p>Uniform and Reliable Titanium Oxide Memristor Array for Efficient In-situ Hardware Neuromorphic Application Jingon Jang¹, Sanggyun Gi², Byunggeun Lee², and Gunuk Wang^{1,3,4} ¹<i>KU-KIST Graduate School of Converging Science and Technology, Korea University,</i> ²<i>School of Electrical Engineering and Computer Science, GIST,</i> ³<i>Department of Integrative Energy Engineering, Korea University,</i> ⁴<i>Center for Neuromorphic Engineering, KIST</i></p>
<p>WD1-J-4 10:15-10:30</p>	<p>Optical Synaptic Properties of the TiO₂-Based Ternary Logic Transistors Using Ultra-thin Dielectric AlO_x Films Jieun Kim^{1,2} and Jung Wook Lim^{1,2} ¹<i>ETRI,</i> ²<i>University of Science and Technology (UST)</i></p>