



제 29회 한국반도체학술대회

The 29th Korean Conference on Semiconductors

2022년 1월 24일(월)~ 26일(수) | 강원도 하이원 그랜드호텔(컨벤션타워)

2022년 1월 26일(수), 10:45-12:30

Room K (다이아몬드 I, 6층)

F. Silicon and Group-IV Devices and Integration Technology 분과 [WK2-F] Neuromorphic Device Application

좌장: 권대응 교수(인하대학교)

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| <p>WK2-F-1 10:45-11:00</p> | <p>Analysis of Bit-Error in Spiking Neural Networks According to Retention Characteristics Taejin Jang, Bosung Jeon, Kyungchul Park, and Byung-Gook Park <i>Department of Electrical Engineering, Seoul National University</i></p> |
| <p>WK2-F-2 11:00-11:15</p> | <p>Spike Duration Adjustable Neuron Circuit for Stable Synaptic Operation Jonghyuk Park^{1,2}, Kyungchul Park^{1,2}, Bosung Jeon^{1,2}, and Byung-Gook Park^{1,2} ¹<i>Inter-University Semiconductor Research Center (ISRC), Seoul National University,</i> ²<i>Department of Electrical and Computer Engineering, Seoul National University</i></p> |
| <p>WK2-F-3 11:15-11:30</p> | <p>Analog Capacitor-less Neuron Circuit Using Multi-gate Feed Back Field Effect Transistor Jun Hyeong Lee, Misun Cha, Jaehoon Shin, Jooyoung Jeon, and Min-Woo Kwon <i>Department of Electric Engineering, Gangneung-Wonju National University</i></p> |
| <p>WK2-F-4 11:30-11:45</p> | <p>Nanoelectromechanical Memory Switches for Binary Neural Networks Hyeontae Bang, Sangjun Lee, Jae Seung Woo, and Woo Young Choi <i>Department of Electronic Engineering, Sogang University</i></p> |
| <p>WK2-F-5 11:45-12:00</p> | <p>Floating Gate Based Synaptic Device Using Back Tunneling Mechanism Donghyun Ryu, Junsu Yu, and Byung-Gook Park <i>Inter-University Semiconductor Research Center (ISRC) and Department of Electrical and Computer Engineering, Seoul National University</i></p> |
| <p>WK2-F-6 12:00-12:15</p> | <p>Analysis of The Effect of Line Resistance in 3D Synaptic Array on The Accuracy of Spiking Neural Networks Seongbin Oh^{1,2}, Dooyong Koh^{1,2}, Soochang Lee^{1,2}, Byung-Gook Park^{1,2}, and Jong-Ho Lee^{1,2} ¹<i>Department of Electrical and Computer Engineering, Seoul National University,</i> ²<i>ISRC, Seoul National University</i></p> |
| <p>WK2-F-7 12:15-12:30</p> | <p>Analog Memristive Devices with an Ion-Implanted Current Limiting Layer for Neuromorphic Computing Keonhee Kim^{1,2}, Dae Cheol Kang^{1,2}, Jae Gwang Lim^{1,2}, Yeonjoo Jeong¹, Jaewook Kim¹, Suyoun Lee¹, Joon Young Kwak¹, Jongkil Park¹, Gyu Weon Hwang¹, Kyeong-Seok Lee¹, Byeong-Kwon Ju², Jong Keuk Park¹, and Inho Kim¹ ¹<i>Center for Neuromorphic Engineering, KIST,</i> ²<i>Display and Nanosystem Laboratory, School of Electrical Engineering, Korea University</i></p> |