2025-02-14(금), 09:00-10:45
좌장: 추후업데이트 예정

G. Device & Process Modeling, Simulation and Reliability 분과

[FJ1-G] Compact Modeling

FJ1-G-1 09:00-09:15	**Vertical Channel IGZO-TFT Model for Neuromorphic Application** Hyoungsoo Kim[1], Daewoong Kwon[2], and Hyunwoo Kim [1]Department of Electrical and Electronics Engineering, Konkuk University, [2]Department of Electronic Engineering, Hanyang University
FJ1-G-2 09:15-09:30	**Deterministic-Precession MTJ Device Utilizing VCMA Effect** Stanislav Sin and Saeroonter Oh Sungkyunkwan University
FJ1-G-3 09:30-09:45	**Large Physics Model-driven SPICE Model Generation of Ultra-Low Power GAA-MOSFET for Efficient DTCO in Semiconductor Design** Premkumar Vincent[1], Johyeon Kim[2], Gunhee Choi[2], Yeongwoo Nam[1], Kyungmin Kim[1], Ye Sle Cha[1], Hyunseok Whang[1], Donghyun Jin[1], Jongwook Jeon[2], and Hyunbo Cho[1] [1]Alsemy Inc., [2]Sungkyunkwan University
FJ1-G-4 09:45-10:00	**Fully Analytical SPICE-Compatible Compact I-V Model and Parameter Extraction Procedure Considering the Density of States and Transport Mechanism in Amorphous InGaZnO Thin-Film Transistors** Sae Him Jung, Seung Joo Myoung, Dong Hyeop Shin, Su Han Noh, Donguk Kim, Changwook Kim, Sung-Jin Choi, Jong-Ho Bae, Dong Myong Kim, and Dae Hwan Kim School of Electrical Engineering, Kookmin University
FJ1-G-5 10:00-10:15	**Short-Channel Effects Model of Channel-All-Around MOSFETs as Cell Array Transistors for 3-Dimensional DRAM** Chae-Young Kim and Ji-Woon Yang Department of Electronics and Information Engineering, Korea University
FJ1-G-6 10:15-10:30	**Design of a Python-SPICE Integrated Platform for FeFET-Based VMM Circuit Simulation in Neuromorphic Computing** Juhwan Park[1], Jongwook Jeon[1],and Huijun Kim[2] [1]Department of Electrical and Computer Engineering, Sungkyunkwan University,

	[2]Department of Semiconductor Convergence Engineering, Sungkyunkwan University
FJ1-G-7 10:30-10:45	**Accelerated Device Simulation of CFET Inverter by Using Quasi-1D Model** Kwang-Woon Lee and Sung-Min Hong School of Electrical Engineering and Computer Science, GIST