G. Device & Process Modeling, Simulation and Reliability 분과

2019년 2월 15일(금), 15:30-17:15
Room B (마루홀, 2층)

[FB3-G] Modeling & Simulation II : Memory and Other Devices

좌장: 김성동 교수(SK하이닉스), 나현철 상무(DB하이텍)

FB3-G-1 **15:30-15:45**	**A Comparative TCAD Study of Two Different Resistivity Models for Metal Word-Line of Highly-Scaled DRAM Cell Transistor** Dongyean Oh, Jeenu Kim, Sangyong Kim, Seungcheol Lee, Seongdong Kim, Seokkiu Lee, and Jinkook Kim *Division of Research and Development, SK Hynix*
FB3-G-2 **15:45-16:00**	**Virtual Reality Visualization Tool for Semiconductor Devices** Sung-Min Hong *EECS, GIST*
FB3-G-3 **16:00-16:15**	**Observation of the Peroxide Formation and a Negative $\triangle V_T$ under Current-Driving Condition in IZO TFTs with Self-Aligned Top-Gate Structure** Shinyoung Park, Sungju Choi, Jihyun Rhee, Dong Myong Kim, Sung-Jin Choi, and Dae Hwan Kim *School of Electrical Engineering, Kookmin University*
FB3-G-4 **16:15-16:30**	**Performance Comparison between Conventional and Junctionless Transistors as 1T-DRAM Cell with Poly-Silicon Body** Hyeonjeong Kim[1], Wookyung Sun[1], In Man Kang[2], Seongjae Cho[3], and Hyungsoon Shin[1] *[1]Department of Electronic and Electrical Engineering, Ewha Womans University,* *[2]School of Electronics Engineering, Kyungpook National University,* *[3]Department of Electronic Engineering, Gachon University*
FB3-G-5 **16:30-16:45**	**Empirical Model of Relationship between the Operation Frequency and the Size of Crossbar Array in the IGZO ReRAM-Based Reconfigurable Logic** Jingyu Park, Jun Tae Jang, Donguk Kim, Jungi Min, Geumho Ahn, Sung-Jin Choi, Dong Myong Kim, Hyun-Sun Mo, and Dae Hwan Kim *School of Electrical Engineering, Kookmin University*
FB3-G-6 **16:45-17:00**	**Non-Linear Behavioral Modeling of SOI MOSFET for RF Switch Applications** Hyunjun Lee, Sangjun Lee, Seongsoo Park, Sung Moo Kim, and Hyunchul Nah *TE Modeling Team, DB HiTek*
FB3-G-7 **17:00-17:15**	**A Novel Characterization Method to Extract for Intrinsic Contact Resistance of DRAM Peri. MOSFET** Tae Hun Kim, Tae Wook Kang, Yong Hyun Seo, Jae Hong Kim, and Dong Yean Oh *SK Hynix*