2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

Future Normal in Semiconductor

2025-02-14(금), 15:10-17:10

좌장: 추후업데이트 예정

G. Device & Process Modeling, Simulation and Reliability 분과

[FB3-G] Carrier Transport & Quantum Simulation

| 초청 FB3-G-1 15:10-15:40 | Advances in Understanding Chemical Bonding in Amorphous and Crystalline Chalcogenide semiconductors Tae Hoon Lee ¹ and Stephen R. Elliott ² ¹ Kyungpook National University, ² University of Oxford |
|------------------------------|--|
| FB3-G-2 15:40-15:55 | Tackling Multi-dimensional Poisson Equations with Mixed Boundary Conditions using Variational Quantum Algorithm Minjin Choi ¹ and Hoon Ryu ² ¹ Center for Quantum Information R&D, KISTI, ² Department of Artificial Intelligence Engineering, Kumoh National Institute of Technology |
| FB3-G-3 15:55-16:10 | First-Principles Modeling of Non-Equilibrium Behavior in Oxide Ferroelectric Tunnel Junctions Kaptan Rajput, Ryong Gyu Lee, Tae Hyung Kim, Hyeonwoo Yeo, Juho Lee, and Yong-Hoon Kim School of Electrical Engineering, KAIST |
| FB3-G-4 16:10-16:25 | Quantum Transport Simulation for the Nanosheet FET including Surface Roughness Scattering Phil-Hun Ahn and Sung-Min Hong School of Electrical Engineering and Computer Science, GIST |
| FB3-G-5 16:25-16:40 | Evaluation of the Effect of Metal Contact Geometry on S/D Junction Resistance in Si/InGaAs FinFETs Using Semi-Classical Monte Carlo Carrier Transport Simulation Jae Yeon Kim ^{1,3} , Dong Hyeok Lee ² , Suk Hyeong Youn ² , and Jiwon Chang ^{1,3} ¹ Department of System Semiconductor Engineering, Yonsei University, ² Department of Materials Science and Engineering, Yonsei University, ³ BK21 Graduate Program in Intelligent Semiconductor Technology |
| FB3-G-6 16:40-16:55 | Four-coupled Multi-physics Simulations of Multi-layer Ferroelectric Field Effect Transistors with Polar Topological States Yangjin Jung, Seokwon Lee, and Mincheol Shin Department of Electrical Engineering, KAIST |

2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

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| | Extremely Low-Power Topological Transistors |
|-------------|---|
| FB3-G-7 | Yosep Park ¹ , Yungyeong Park ² , Subeen Lim ² , and Yeonghun Lee ^{1,2} |
| 16:55-17:10 | ¹ Department of Intelligent Semiconductor Engineering, Incheon National University, |
| | ² Department of Electronics Engineering, Incheon National University |