14G. Neural Network Based Modeling and Simulation	
Session Date:	March 8(Wed.), 2023
Session Time:	13:30-14:55
Session Room:	Room G (#318)
Session Chair	Prof. Min-Hwi Kim (Chung-Ang University)

[14G-1] [Invited]　　　　　　　　　　　　　　　　　　　　**13:30-13:55**

Neural Compact Modeling: Motivation, State of the Art, Future Perspectives

Hyunbo Cho

Alsemy Inc.

[14G-2]　　　　　　　　　　　　　　　　　　　　　　　　　**13:55-14:10**

Coupled Multiple Physics-Informed Deep Operator Networks for Boltzmann Transport Simulations of Nanowire Field Effect Transistors

Bokyeom Kim and Mincheol Shin

Korea Advanced Institute of Science and Technology

[14G-3]　　　　　　　　　　　　　　　　　　　　　　　　　**14:10-14:25**

Accelerated Simulation and Performance Optimization of 3D Multigate Logic Transistors by Using Neural Networks

Seung-Cheol Han, In Ki Kim and Sung-Min Hong

Gwangju Institute of Science and Technology

[14G-4]　　　　　　　　　　　　　　　　　　　　　　　　　**14:25-14:40**

Variability Aware FET Model with Physics Knowledge Based Machine Learning

Kumar Sheelvardhan, Surila Guglani, M. Ehteshamuddin, Sourajeet Roy and Avirup Dasgupta

Indian Institute of Technology Roorkee

[14G-5]　　　　　　　　　　　　　　　　　　　　　　　　　**14:40-14:55**

Graphical Approach of Equipment Health Monitoring Using Network Analysis

Wanwook Ki, Minjae Choi, Yongjun Lee, Kiseop Yoon, Hanchan Hwang, Jisoo Park, Taewook Kang, Jaeyong Park and Younghoon Kim

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