Sunday,	October	15,	2023
Tutorials			

8:30 - 5:20 Tutorials Chair: Wendem Beyene, *Meta* 

Tutorial I - Metalearning Advances in Machine Learning for Modeling of Emerging FET Devices and Interconnects below 10nm Technology Nodes (8:30-9:30)

Sourajeet Roy, Avirup Dasgupta, IIT Roorkee

Tutorial II - Signal and Power Integrity Design for Highperformance SSD PCI Express Channel (9:30-10:30)

Jinwook Song, Samsung

10:30 - 10:50 Coffee Break

Tutorial III - Floorplanning Methods for Die/PKG Co-Design (10:50-11:50)

Vaishnav Srinivas<sup>1</sup>, Paul Franzon<sup>2</sup>, <sup>1</sup>Qualcomm, <sup>2</sup>North Caroline State University

Tutorial IV - Winning the Lottery with Power Integrity Simulation ... What are the Odds (11:50-12:20)

Heidi Barnes, Kevsight

12:20 - 2:00 Lunch Break

Tutorial V - EM simulations of interconnects with layered media integral equations and fast algorithms (2:00 - 3:00)

Vladimir Ohkmatovski, University of Manitoba

Tutorial VI - Design and Analysis of Hybrid DC-DC converters for Mobile Applications  $(3\hbox{:}00\hbox{-}4\hbox{:}00)$ 

Abdullah Abdulslam, Meta Platforms

4:00 - 4:20 Coffee Break

Tutorial VII - Introduction to Universal Chiplet Interconnect Express (4:20-5:20)

Joe (Zuoguo) Wu, Intel

	Joe (Zuoguo)	Wu, Intel
Monday, October 16, 2023		
	7:00 - 7:50	Breakfast
	7:50 - 8:00	Opening Remarks
	8:00 - 9:00	Keynote I
	Chair: Stefano	Grivet-Talocia, Politecnico di Torino

SURFACE power delivery, the future of High-Performance Computing Jose A. Cobos. *Universidad Politécnica de Madrid* 

9:00 - 10:00 Session M-I: High Speed System Design

Chairs: Kemal Aygun, *Intel* Junyan Tang, *IBM* 

# M-I.1. Development of High-speed and Large-capacity 2U MRDIMM: First-ever MRDIMM with Dual PMICs

Jonghoon J. Kim, Jinseong Yun, Kyudong Lee, Rakjoo Sung, Jihye Yang, Sanghyuk Yoon, Young-Ho Lee, KyoungSuk Kim, Jeonghyeon Cho, Hoyoung Song, Samsung Electronics

M-I.2. Active mode-conversion-noise Suppressor with Individual Powersupply Control for Automotive Power-over-data-line Communication Yutaka Uematsu, *Hitachi Ltd* 

M-I.3. PCB-level Jitter Sensitivity Measurement and Hierarchical PDN-Z based PSIJ Estimation for PCIe Gen5 SSD

Youngjun Ko, Jinwook Song, Seokwoo Hong, Hyunwoo Kim, Chorom Jang, Sungwoo Jin, Sungwon Roh, Jinan Lee, Jonghee Jeong, Kyungsuk Kim, Jonggyu Park, *Samsung Electronics* 

10:00 - 10:20	Coffee Break
10:20 - 12:00	Session M-II: Special Session on Advances in High
	Speed Interconnect Signal Integrity Design, Analysis
	and Measurements

Chairs: Jose Hejase, Nvidia

Jinwook Song, Samsung Electronics

M-II.1. Analyses of Via-In-Pad Plated Over (VIPPO) and Dogbone in Fanout Routing High-Density Interconnects

Yanyan Zhang, Junyan Tang, Xiaomin Duan, Srijan Datta, Pavel Roy Paladhi, Mahesh Bohra, Sungjun Chun, Daniel Dreps, *IBM* 

M-II.2. A New Perspective on Quasi-TEM Behavior in Microstrip Transmission Lines (Student Competition) Aditya Rao, Eric Bogatin, Melinda Piket-May, Mohammed Hadi, *University of Colorado, Boulder* 

M-II.3. Interconnect Modelling Sensitivity Studies for High Signaling Data Rates

Adewale Oladeinde, Jose Hejase, Nvidia

M-II.4. Package Technology Enabling for 224 Gbps Electrical Signaling Kemal Aygun, Duye Ye, Cemil Geyik, Zhiguo Qian, *Intel* 

M-II.5. Analysis of Differential Stripline Routing Approaches within a PCB Via Field for Crosstalk Mitigation

Srijan Datta\*, Yuechen Wang, Junyan Tang, Xianbo Yang, Yanyan Zhang, Pavel R. Paladhi, Mahesh Bohra, Joshua C. Myers, Sungjun Chun and Daniel M. Dreps, *IBM* 

12:00 - 12:10	Sponsor Demo: Siemens
12:10 - 1:30	Lunch Break and TPC Meeting
1:30 - 2:50	Session M-III: Special Session on Electromagnetics

Chairs: Vladimir Okhmatovski, *University of Manitoba*Dries Vande Ginste, *Ghent University* 

# M-III.1. CISPR 25 Conducted Emission Simulation and Measurement Correlation of an Automotive Isolated Solid-State Relay

Jie Chen<sup>1</sup>, Rajen Murugan<sup>1</sup>, John Broze<sup>1</sup>, Premsagar Kittur<sup>1</sup>, Bryan Marshall<sup>1</sup>, Tilden Chen<sup>1</sup>, Alex Triano<sup>1</sup>, Bibhu Nayak<sup>2</sup>, Harikiran Muniganti<sup>2</sup>, Joe Sivaswamy<sup>2</sup>, and Dipanjan Gope<sup>2</sup>, <sup>1</sup>Texas Instruments Incorporated, <sup>2</sup>Simyog Technology, Pvt., Ltd

# M-III.2. Fast and Accurate Calculation of Mutual Inductance in the Presence of Conductive and Magnetic Media

Dyuti Sengupta, Andreas Weisshaar, *Oregon State University*M-III.3. **Stochastic Modeling of Microcontroller Emission**Aishwarya Gavai<sup>1,3</sup>, Jan Hansen<sup>2</sup>, Vivek Dhood<sup>3</sup> and Dipanjan Gope<sup>1,4</sup>, <sup>1</sup>*Indian* 

Answarya Gava , Jan Hansen , Yoko Binoot and Dipanjian Gope , matan Institute of Science, Institute of Electronics, Inffeldgasse 12/1, A-8010 Graz, Austria, <sup>3</sup>Mercedes Benz Research and Development India, <sup>4</sup>Simyog Technology Pvt. Ltd.

M-III.4. Analysis of Electrostatically Induced Interconnect Structures in Single-Layer Graphene via a Conservative First-Principles Modeling Technique (Student Competition)

Emile Vanderstraeten, Dries Vande Ginste, Ghent University

Einic validerstracted, Dries valide Gliste, Ghent University		
2:50 - 3:10	Coffee Break	
3:10 - 4:50	Session M-IV: Special Session on EDMS Packaging	
	Benchmark	

Chairs: Heidi Barnes, Keysight

Xu Chen, University of Illinois at Urbana-Champaign

#### M-IV.1. Fast Electromagnetic Analysis of Multiscale Interconnect Networks using MultiAIM (Student Competition)

Yongzhong Li, Damian Marek, Piero Triverio, University of Toronto

M-IV.2. Full Wave IBM Plasma Substrate Benchmark By Cadence Clarity Simian Sun<sup>1</sup>, Frank Zavosh<sup>1</sup>, Zhiping Yang<sup>2</sup>, Qin Liu<sup>1</sup>, Suomin Cui<sup>1</sup>, and Lijun Jiang<sup>2,3</sup>, <sup>1</sup>Cadence Design Systems, Inc., <sup>2</sup>Missouri S&T EMC Laboratory, <sup>3</sup>The Chinese University of Hong Kong

M-IV.3. Full-Wave Analysis of Interconnects in Finite Substrates with Layered Media Formulation of SVS-EFIE for 3D Composite Metal-Dielectric Structures

Alireza Niazi, Shucheng Zheng, Chris Nguyen, Okhmatovski Vladimir, University of Manitoba

# M-IV.4. Efficient Boundary Element Methodology for Analyzing Interconnects in Multilayered PCBs

Swagato Chakraborty, Giacomo Bianconi, Daniel de Araujo, James Pingenot, Siemens EDA

 $\mbox{M-IV.5.}$  Integral Equation-Based Solver for the Simulation of Integrated Circuit Packages

Hans Schreckenbach, Santosh Janaki Raman, Andre Fecteau, Nima Chamanara, David Abraham, Randy Yee, Jonatan Aronsson, *CEMWorks, Inc.* 

4:50 - 5:00	Sponsor Demo: Texas Instruments
5:00 - 6:30	Sponsor Booths
5:00 - 6:30	Session M-V: Poster Presentations
Chair: Andrew	Page, IBM

M-V.1. A Comprehensive Methodology for Optimizing Power Integrity of High-Performance IC Packages

Wei Liu, Guang Chen, Qian Ding, Jenny Xiaohong Jiang, *Intel Corporation* M-V.2. Quantification of Delay and Skew Uncertainty due to Fiber Weave Effect in PCB Interconnects

Alex Manukovsky<sup>1</sup>, Yuriy Shlepnev<sup>2</sup>, Shimon Mordooch<sup>1</sup>, <sup>1</sup>Intel <sup>2</sup>Simberian Inc.

# $\mbox{M-V.3.}$ Signal/Power Integrity Co-Simulation of Die-to-Die Interface Customized for Augmented Reality

Ashkan Hashemi, Koichi Yamaguchi, Bardia Bozorgzadeh, Ling Jiang, Harsha Manjunath, Mahmoud Reza Ahmadi, and Wendemgegnehu Beyene, *Meta Platforms Inc.*, *Reality Labs* 

 $M\text{-}\dot{V}.4.$  Signal and Power Integrity Design of Advanced Interface Bus (AIB) for FPGA Packages

Brian Wang, Guang Chen, Loke Yip Foo, Intel Corporation

 $\mbox{M-V.5.}$  On the Phase Estimation Amplitudes in the Quantum Matrix Equation Solver

Xinbo Li<sup>1</sup>, Christopher Phillips<sup>2</sup>, Ian Jeffrey<sup>1</sup>, Vladimir Okhmatovski<sup>1</sup>, <sup>1</sup>University of Manitoba, <sup>2</sup>University of Waterloo

# M-V.6. Contact Resistance of 3D-Printed Interconnects to Thin-Film Metals for Advanced Packaging

Jacob Dawes, Alyssa Estenson, Matthew Johnston, *Oregon State University* M-V.7. Broadband RF Interconnects in a Multi-Layer Advanced

Packaging with Si Interposer (Student Competition)
Sofia Myokany, Jack Molles, *University of Colorado Boulder* 

M-V.8. Method of Exploring HVM Process Corner Cases for Loss and Impedance in High Speed Designs (Student Competition)

Hyunsu Chae<sup>1</sup>, David Z. Pan<sup>1</sup>, Adam Klivans<sup>1</sup>, Bhyrav Mutnury<sup>2</sup>, Douglas Winterberg<sup>2</sup>, Douglas E. Wallace<sup>2</sup>, Arun Chada<sup>2</sup>, <sup>1</sup>University of Texas at Austin, <sup>2</sup>Dell Technologies

### M-V.9. A Flexible Neural Network-Based Tool for Package Second Level Interconnect Modeling

Furkan Karatoprak<sup>1</sup>, Ekin Su Sacin<sup>1</sup>, Doganay Ozese<sup>2</sup>, Ahmet C. Durgun<sup>1</sup>, Mustafa Gokce Baydogan<sup>2</sup>, Kemal Aygun<sup>3</sup>, and Tolga Memioglu<sup>3</sup>, <sup>1</sup>Middle East Technical University, <sup>2</sup>Bogazici University, <sup>3</sup>Intel Corporation

M-V.10. Signal Integrity Design and Analysis of Redistribution Layer Interposer Channel with Diagonal Meshed Ground in Memory Interface of High Bandwidth Memory (Student Competition)

Jonghyun Hong, Jiwon Yoon, Hyunwoo Kim, Keeyoung Son, Seonguk Choi, Junghyun Lee, Keunwoo Kim, Joonsang Park, Seongguk Kim, Boogyo Sim, and Joungho Kim, *Korea Advanced Institute of Science and Technology (KAIST)* 

M-V.11. S-Parameter-Based Delay Calculations in Low-Cost Module Robert Wenzel, Nikhita Baladari, NXP Semiconductors

# M-V.12. HIGH SPEED DIGITAL SIGNALING IN PRINTED, PLANAR MICROWAVE CONNECTORS WITH MULTIPLE SIGNAL LINES Kasule Jotham, Alkim Akyurtlu, Craig Armiento, *University of Massachusestts Lowell* (Student Competition)

M-V.13. A Computational Framework on Pinhole Damage in Ultrathin Inorganic Barriers for Flexible Electronics Encapsulation

Cagan Diyaroglu, Mohammad Taghi, Kyungjin Kim, *University of Connecticut* M-V.14. Crosstalk Mitigated On-chip Interconnect Design for High-speed Network-on-Chip (NoC) of Full Wafer Scale Chip (FWSC)

Juneyoung Kim, Seonguk Choi, Seongguk Kim, Jihun Kim, Boogyo Sim, Junghyun Lee, Taein Shin, Hyunwoo Kim, Jonghyun Hong, Haeyeon Kim, Joonsang Park and Joungho Kim, Korea Advanced Institute of Science and Technology (KAIST) (Student Competition)

 $M-V.15. \ \ \overline{Versatile} \ \ \underline{Genetic Algorithm-Bayesian Optimization} (GA-BO) \ \ \underline{Bi-Level Optimization for Decoupling Capacitor Placement} \ \ (\underline{Student} \ \ \underline{Competition})$ 

Hyunah Park, Haeyeon Kim, Hyunwoo Kim, Joonsang Park, Seonguk Choi, Jihun Kim, Keeyoung Son, Haeseok Suh, Taesoo Kim, Jungmin Ahn and Joungho Kim, *Korea Advanced Institute of Science and Technology (KAIST)* 

M-V.16. Automated Generation and Correlation of Physics-Based Via Models with Full-Wave Simulation for an SI/PI Database

Til Hillebrecht<sup>1</sup>, Johannes Alfert<sup>1</sup>, Torsten Reuschel<sup>2</sup>, Christian Schuster<sup>1</sup>, <sup>1</sup>Hamburg University of Technology (TUHH), <sup>2</sup>University of New Brunswick Tuesday, October 17, 2023
7:00 - 8:00 Breakfast
8:00 - 9:00 Keynote II

Chair: Swagato Chakraborty, Siemens EDA

Fifty Years of Partial Element Equivalent Circuit (PEEC) Enhancements Albert Ruehli, *Missouri Institute of Science and Technology* 

9:00 - 10:00 Session T-I: Advancements in Partial Element Equivalent Circuit

Chairs: Albert Ruehli, Missouri Institute of Science and Technology Swagato Chakraborty, Siemens EDA

T-I.1. Recent Progress on Signal Integrity Modeling of Neuromorphic Chips by the PEEC Method

Hanzhi Ma<sup>1</sup>, Tuomin Tao<sup>1</sup>, Quankun Chen<sup>1</sup>, Da Li<sup>1</sup>, Jose Schutt-Aine<sup>2</sup>, Andreas Cangellaris<sup>3</sup>, Er-Ping Li<sup>1</sup>, <sup>1</sup>Zhejiang University,

<sup>2</sup>University of Illinois at Urbana-Champaign, <sup>3</sup>NEOM University

T-I.2. Physics-Intuitive Micro-Modeling Circuits (MMC) Inspired by PEEC Models for Emerging Electromagnetic Problems

Yuhang Dou<sup>1</sup>, Yang Jiang<sup>2</sup>, Ke-Li Wu<sup>3</sup>, <sup>1</sup>Xiamen University, <sup>2</sup>A\*STAR, <sup>3</sup>The Chinese University of Hong Kong

T-I.3. Simple Extraction of the First Resonant Frequency via Integral Equation Method

Riccardo Torchio, Francesco Lucchini, Univeristy of Padova

| 10:00 - 10:20 | Coffee Break | | 10:20 - 12:20 | Session T-II: Special Session on Model Order | Reduction |

Chairs: Stefano Grivet-Talocia, Politecnico di Torino Sourajeet Roy, IIT Roorkee

T-II.1. Wideband Complex Vector Fitting for Modeling Time Delay Variations in Passive Photonic Filters

Thijs Ullrick, Dirk Deschrijver, Wim Bogaerts, Tom Dhaene, *Ghent University*T-II.2. Improving Accuracy of Rational Macromodels under Realistic
Loading Conditions (Student Competition)

Antonio Carlucci, Tommaso Bradde, Stefano Grivet-Talocia, *Politecnico di* 

T-II.3. Fast Frequency-Domain Analysis for Parametric Electromagnetic Models Using Deep Learning

Elia Mattucci<sup>1</sup>, Lihong Feng<sup>2</sup>, Peter Benner<sup>2</sup>, Daniele Romano<sup>3</sup>, Giulio Antonini<sup>3</sup>, <sup>1</sup>Rete Ferroviaria Italiana S.p.A., <sup>2</sup>Max Planck Institute for Dynamics of Complex Technical Systems, <sup>3</sup>University of L'Aquila

T-II.4. Balancing-Based Model Reduction for Fast Power Integrity Verification (Student Competition)

Antonio Carlucci<sup>1</sup>, Stefano Grivet-Talocia<sup>1</sup>, Scott Mongrain<sup>2</sup>, Sid Kulasekaran<sup>2</sup>, Kaladhar Radhakrishnan<sup>2</sup>, <sup>1</sup>Politecnico di Torino, <sup>2</sup>Intel Corporation

T-II.5. Causal or Not? A Definite Answer for Frequency-Response Data Andria Lemus, A. Ege Engin, San Diego State University

T-II.6. Lossy Transmission Line Model Based on the Generalized Method of Characteristics (Student Competition)

Mark Keran, Anestis Dounavis, Western University

12:20 - 12:30	Sponsor Demo: Cadence
12:30 - 2:00	Lunch Break and EDMS Meeting
2:00 - 3:20	Session T-III: Special Session on Machine Learning
Chairs: Xu Chen	, University of Illinois at Urbana-Champaign

Lijun Jiang, Missouri Institute of Science and Technology
T-III.1. Prior Knowledge Accelerated Transfer Learning (PKI-TL) for
Machine Learning Assisted Uncertainty Quantification of MLGNR

Machine Learning Assisted Uncertainty Quantification of MLGNR Interconnect Networks

Sourajeet Roy, Asha Kumari Jakhar, Surila Guglani, Avirup Dasgupta, *IIT* 

T-III.2. Generative Multi-Physics Models for System Power and Thermal Analysis Using Conditional Generative Adversarial Networks

Priyank Kashyap<sup>1</sup>, Chris Cheng<sup>1</sup>, Yongjin Choi<sup>1</sup>, Paul Franzon<sup>2</sup>, <sup>1</sup>Hewlett Packard Enterprise, <sup>2</sup>North Carolina State University

T-III.3. Batch Training of Gaussian Process for Up-sampling Problems in S-Parameter Predictions (Student Competition)

Yiliang Guo<sup>1</sup>, Xingchen Li<sup>1</sup>, Yifan Wang<sup>1</sup>, Rahul Kumar<sup>2</sup>, Madhavan

Swaminathan<sup>2</sup>, <sup>1</sup>Pennsylvania State University, <sup>2</sup>Georgia Institute of Technology

T-III.4. Machine-Learning-Based Constrained Optimization of a Test Coupon Launch Using Inverse Modeling

Andrew Page, Xu Chen, University of Illinois at Urbana-Champaign 3:20 - 3:40 Coffee Break

3:40 - 5:20 Session T-IV: Package Design and Analysis Chairs: Yaping Zhou, Nvidia

1 aping Zhou, itvidia

Andreas Weisshaar, Oregon State University

 $T-IV.1. \ Modeling \ and \ Analysis \ of \ Simultaneous \ Switching \ Noise \ for \ Full \ Wafer \ Scale \ Chip \ Core \ (Student \ Competition)$ 

Hyunwoo Kim, Seonguk Choi, Joonsang Park, Haeyeon Kim, Keeyoung Son, Junghyun Lee, Jiwon Yoon, Jonghyun Hong, Boogyo Sim, Keunwoo Kim, Taein Shin, and Joungho Kim, *Korea Advanced Institute of Science and Technology (KAIST)* 

T-IV.2. Design and Analysis of Redistribution Layer Interposer Channel Considering Signal Integrity for High Bandwidth Memory Module (Student Competition)

Jiwon Yoon¹, Hyunwook Park², Hyunwoo Kim¹, Boogyo Sim¹, Jonghyun Hong¹, Seongguk Kim¹, Keeyoung Son¹, Keunwoo Kim¹, Yigyeong Kim³, Sujin Park³, Youngsu Kwon³, Joungho Kim¹, ¹Korea Advanced Institute of Science and Technology (KAIST), ²Missouri University of Science and Technology (MST), ³Electronics and Telecommunications Research Institute (ETRI)

T-IV.3. Real-Time Precision Prediction of 3-D Package Thermal Maps via Image-to-Image Translation (Student Competition)

Michael Joseph Smith, Seunghyun Hwang, Vinicius Cabral Do Nascimento, Qiang Qiu, Cheng-Kok Koh, Ganesh Subbarayan, Dan Jiao, *Purdue University* 

T-IV.4. Design and Analysis of an Irregular-Shaped Power Distribution Network (PDN) for High Bandwidth Memory (HBM) Interposer (Student Competition)

Joonsang Park<sup>1</sup>, Seongguk Kim<sup>1</sup>, Keeyoung Son<sup>1</sup>, Haeyeon Kim<sup>1</sup>, Hyunwoo Kim<sup>1</sup>, Hyunsik Kim<sup>2</sup>, Seonguk Choi<sup>1</sup>, Jihun Kim<sup>1</sup>, and Joungho Kim<sup>1</sup>, <sup>1</sup>Korea Advanced Institute of Science and Technology (KAIST), <sup>2</sup>SK Hynix Inc.

T-IV.5. HBM3 PPA Performance Evaluation by TSV Model with Micro-Bump and Hybrid Bonding (Student Competition)

Li-Hsin Huang, Yu-Ying Cheng, Tzong-Lin Wu, National Taiwan University

Li-Hsin Huang,	Yu-Ying Cheng, Izong-Lin Wu, National Taiwan University
5:20 - 5:30	Sponsor Demo: Xpeedic
7:00 - 10:00	Dinner Banquet
	Wednesday, October 18, 2023
7:00 - 8:00	Breakfast
8:00 - 9:00	Keynote III
Chair: Piero Tri	vario University of Toronto

Quantum Computing with Industrial Spin Qubits: Scaling Challenges and the Interconnect Bottleneck

Lester Lampert, Intel

9:00 - 10:20 Session W-I: RF and Advanced Packaging

Chairs: Piero Triverio, *University of Toronto* Giacomo Bianconi, *Siemens EDA* 

W-I.1. Broadband Launcher-in-Package using HDI Substrate for Radar Applications

Nikita Mahjabeen, Robert Wenzel, Tingdong Zhou, NXP Semiconductors

W-I.2. Substrate Integrated Coaxial Line Millimeterwave Components Manufactured in Standard PCB (Student Competition)

Laura Van Messem, Arno Moerman, Olivier Caytan, Hendrik Rogier, Sam Lemey, *Ghent University* 

W-I.3. Robust and Efficient Design of On-Chip Compact Delay Units Based on Bridged T-Coil (Student Competition)

Han-Ting Lin, Andreas Weisshaar, Oregon State University

W-I.4. **D-Band Flip-Chip Packaging with Wafer-Level Cu-pillar Bumps** Zhibo Cao<sup>1</sup>, Matteo Stocchi<sup>2</sup>, Christian Wipf<sup>1</sup>, Jens Lehmann<sup>1</sup>, Lei Li<sup>3</sup>, Selin Tolunay Wipf<sup>1</sup>, Matthias Wietstruck<sup>1</sup>, Corrado Carta<sup>1,4</sup>, Mehmet Kaynak<sup>5</sup>, <sup>1</sup>IHP Microelectronics, <sup>2</sup>Keysight Technologies, <sup>3</sup>Cornell University, <sup>4</sup>Technische Universitat Berlin, <sup>5</sup>Texas Instruments

10:20 - 10:40 Coffee Break

10:40 - 12:20 Session W-II: Applied Machine Learning in Design and Analysis of Interconnects

Chairs: Vaishnav Srinivas, Qualcomm Dan Jiao, Purdue University

W-II.1. Adaptive Gramian-Angular-Field Segmentation Integration Based Generative Adversarial Network (AGSI-GAN) for Eye Diagram Estimation of High Bandwidth Memory (HBM) Interposer (Student Competition)

Junghyun Lee, Seonguk Choi, Keeyoung Son, Joonsang Park, Hyunwoo Kim, Keunwoo Kim, Taein Shin, Boogyo Sim, Jonghyun Hong, Jiwon Yoon, Juneyoung Kim, Joungho Kim, Korea Advanced Institute of Science and Technology (KAIST)

W-II.2. Knowledge Distillation and Multi-task Feature Learning for Partial Discharge Recognition

Jinsheng Ji<sup>1</sup>, Zhou Shu<sup>1</sup>, Hongqun Li<sup>2</sup>, Kai Xian Lai<sup>2</sup>, Yuanjin Zheng<sup>1</sup>, Xudong Jiang<sup>1</sup>, <sup>1</sup>Nanyang Technological University, <sup>2</sup>Singapore Power Group

 $W-II.3. \ Efficient \ Uncertainty \ Quantification \ using \ Sensitivity \ Information \ in \ Least \ Squares \ SVM$ 

Karanvir S. Sidhu, Roni Khazaka, McGill University

W-II.4. System Aware Floorplanning for Chip-Package Co-design Tse-Han Pan<sup>1</sup>, Paul Franzon<sup>1</sup>, Vaishnav Srinivas<sup>2</sup>, Mahalingam Nagarajan<sup>2</sup>, Darko Popovic<sup>2</sup>, <sup>1</sup>North Carolina State University, <sup>2</sup>Oualcomm Technologies, Inc.

W-II.5. Efficient Estimation of Power Supply Induced Jitter via Machine Learning (Student Competition)

Ahsan Javaid<sup>1</sup>, Ramachandra Achar<sup>1</sup>, Jai Tripathi<sup>2</sup>, <sup>1</sup>Carleton University, <sup>2</sup>Indian Institute of Technology Jodhpur

12:20 - 12:40 Awards and Conference Wrap-up

12:45 - 2:30 Lunch Break



**EPEPS 2023** 

32<sup>st</sup> Conference on Electrical Performance of Electronic Packaging and Systems

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