On-Demand Presentations (available via WI	nova Event App from 7-24 December, 2022)
1. Packages Design and Simulations	2. Quality, Reliability & Failure Analysis
1.1 High-Density 56Gbps PAM4 Package Design Enablement with Cost and Performance Optimization	2.1 Vias Electromigration Lifetime Reliability Evaluation by using Focus Ion Beam Method
Tan, Chit Zhung (1); Chong, Fee Wah (1); Jiang, Jenny (2)	Xiaowen, Zhang; XiaoLing, Lin; Zongbei, DAI; Rui, Gao*
Intel Programmable Solutions Group, Penang Malaysia; Intel Programmable Solutions Group, California United States	The Fifth Electronics Research Institute of the Ministry of Industry and Information Technology, China
1.2 Determining System Level Margin through SIPI Co-simulation and Jitter Transfer Function	2.2 A Non-Destructive Inspection Method for Electronic Packaging Reliability Incorporating Mechanical and Thermal information
Tan, Fern Nee; Chew, Li Wern; Ong, Ling Li; Mak, Sze Lin; Mah, Chee Hoong	Xiong, Chuanguo; Zeng, Baoshan; Huang, Yuhua; Zhu, Fulong
Intel Corporation, Malaysia	Huazhong University of Science and Technology, China
1.3 Fast Design of a Multilayer Interdigital Filter Exploiting Trust Region Aggressive Space Mapping	2.3 Package Failure Understanding Through Crack Propagation Analysis
Wang, Xiaoming (1); Chen, Haojie (1); Yang, Yang (1); Cao, Lin (2); Jin, Yufeng (1)	Talledo, Jefferson Sismundo; Delos Santos, Dexter; Santos, Mark Renier
School of Electronic and Computer Engineering, Shenzhen Graduate School of Peking University,	STMicroelectronics, Philippines
China, People's Republic of, Nanyang Technological University 1.4 Parasitic effect analysis on TSV design factors	2.4 Deep Learning and PoF Based Surrogate Model for Prognostics of Solder Joints in
	Microelectronics Albrecht, Jan; Rzepka, Sven
Jung, Cheong-ha; Seo, Seong-won; Kim, Gu-sung	
EPRC, Korea, Republic of (South Korea) 1.5 Novel Power Grid Architecture to Reduce IR drop and Prevent Electromagnetic	Fraunhofer ENAS, Germany 2.5 Numerical Study on Semi-elliptical Crack in Heavy Aluminum Bonding Wires for IGBT
Interference	Module
SHARMA, AJAY KUMAR; BHOOSHAN, RISHI; IMAM, RAZA	Liu, Xiaofeng; Huang, Qiang; Zhu, Wenhui; Wang, Liancheng
NXP Semiconductors pvt ltd, India 1.6 Thermal management of the high-power downhole electronics using liquid cooling and	Central South University, China, People's Republic of
phase change materials under high temperature environment	2.6 Solder Joint Reliability Assessment on FO-CSP for Next Generation DDR6 Liu, Vance (1); Chen, Jian-Ming (1); Pan, Ji-An (1); Sinha, Koustav (2); Gan, CL (1); Huang, Edward
Peng, Jiale; Lan, Wei; Wei, Fulong; Deng, Chao; Luo, Xiaobing	(1); Yoo, Chan (2); Takiar, Hem (2)
Huazhong Univeisity of Science and Technology, China, People's Republic of 1.7 An Effective Analytical Method for Thermal Stresses Analysis of Heterogeneous	Micron Technology, Taiwan; Micron Technology, US 2.7 Enhanced Reversible USB Connector (eUSB-R) for ESD/EOS Components Removal in
Integration System in Display	USB4/USB3 High Speed Interconnects
Huang, Sixin, Long, Haohui, Li, Jianhui	Chew, Li Wern; Chai, Ming Dak
Huawei Technologies Co., Ltd, China; Huawei Device Co., Ltd, China 1.8 Substrate Design Optimization of Fine Pitch FCCSP for Molded Underfill Void Free	Intel Corporation, Malaysia 2.8 The Effect of Thermal Cycling Rate on the Mechanical Behavior of Micro bumps in CoWoS
Evaluation	three-dimensional Package
Yen, Freedman	BAO, Hong (1,2); LIU, Tianhan, NING, Minjie, DU, Weiping, LIU, Yufeng, DAI, Zongbei (1,2)
	Guilin University of Electronic Technology, No.5 Electronics Research Institute of the Ministry of
Siliconware Precision Industries Co., Ltd., Taiwan	Industry and Information Technology, Guangzhou, China 2.9 RDL Elements' Anisotropic Equivalent Mechanical Material Properties Calculation Based
1.9 A Fast Analytical Model for TSV-based Toroidal Inductors	Industry and Information Technology, Guangzhou, China 2.9 RDL Elements' Anisotropic Equivalent Mechanical Material Properties Calculation Based on Machine Learning Method
1.9 A Fast Analytical Model for TSV-based Toroidal Inductors Yang, Yang (1); Jin, Yufeng (1); Liu, Huan (2); Cao, Lin (3) Shenzhen Graduate School of Peking University, China; Institute of Microelectronics, Peking	Industry and Information Technology, Guangzhou, China 2.9 RDL Elements' Anisotropic Equivalent Mechanical Material Properties Calculation Based on Machine Learning Method Wu, Xiaodong; Ma, Shenling
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Yang, Yang (1); Jin, Yufeng (1); Liu, Huan (2); Cao, Lin (3) Shenzhen Graduate School of Peking University, China; Institute of Microelectronics, Peking University, China; Nanyang Technological University 1.10 Design and Optimization of Microchannel in a Fan-out Package for Heat Dissipation Sun, Bo; Zhang, Weize; Guo, Chunbing; Cui, Chengqiang School of Integrated Circuit, Guangdong University of Technology 3. Materials and Processing 3.1 Effect of Wafer film on 4H-SiC Nano-Indentation Process Zhou, Yuqi; Huang, Yuhu; Li, Jinming; Zhu, Fulong School of Mechanical Science and Engineering, Huazhong University of Science and Technology, Wuhan, Hubei Province, 430074, China 3.2 The Effect of BNNS Distribution on the Plastic Deformation of BNNS/AI Composites during the Nanoindentation Li, Jinming; Huang, Yuhua; Zhou, Yuqi; Zhu, Fulong Huazhong University of Science and Technology, China, People's Republic of 3.3 Effectiveness of Slow Cure Non-Conductive Film in Void Elimination Jao, Li; Lai, Ming Hung; Kr, Sareddy, Tsai, Meng Hung; Espina, Angelo; Chung, Min Hua; Gan, Chong Leong Micron Technology, Taiwan 3.4 EFFECT OF DIE THICKNESS ON THE RELIABILITY OF SOLDER JOINT IN CLIP-BONDED PACKAGES. Dchar, Ilyas; Yandoc, Ding	Industry and Information Technology, Guangzhou, China 2.9 RDL Elements' Anisotropic Equivalent Mechanical Material Properties Calculation Based on Machine Learning Method Wu, Xiaodong; Ma, Shenling Xiamen university, China 4. Emerging Technologies 4.1 Design of 2.4 GHz one-sided directional slot antenna with the main board Sagawa, Tetsuya (1); Komaki, Ichiro (2); Okawa, Yuki (2); Kohashi, Yasunari (2); Kanaya, Haruichi (1) Kyushu University, Japan; Braveridge Co., Ltd. 4.2 Design of one-sided directional slot antenna for 28GHz band application by Bayesian optimization Takegami, Kohei (1); Goodwill, Kumar (2); Kanaya, Haruichi (3) Kyushu University, Japan; Takeshi (2); Tham, Kim Kong (2); Goodwill, Kumar (1); Kanaya, Haruichi (1) Kyushu University, Japan; TANAKA Kikinzoku Kogyo K.K. 4.4 Development of RF Energy Harvesting Circuit by Multistage and Multiple Connections Torigoe, Shota (1); Hosaka, Ryoma (1); Mansour, Mohamed M (1); Takiguchi, Osamu (2); Murakami, Masaya (3); Kanaya, Haruichi (1)
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