

KEYNOTE PRESENTATIONS

BIOGRAPHY

Prof. Klaus Wolter's research interests have embraced many aspects of microelectronics packaging, including substrate technologies, assembly technologies, photonic packaging, MEMS, joining technologies, reliability of electronic packages, and non-destructive test methods. He is well known as the co-editor and co-author of six textbooks, co-editor of three book series with a total of 39 books, author and co-author of more than 200 papers. He is a senior member of IEEE-CPMT. Prof. Wolter was the Director of the Electronic Packaging Lab at TU Dresden from 2003 to 2014. From March 2015 to March 2017, he was a visiting professor at the 3D Systems Packaging Research Center of Georgia Tech Atlanta where he researched on system-integration for advanced automotive electronics. Currently he is a senior professor at TU Dresden.



ADVANCED AUTOMOTIVE ELECTRONICS FOR AUTONOMOUS DRIVING

Klaus Wolter, Venky Sundaram, Rao Tummala
Georgia Tech Atlanta, 3D Systems Packaging Research Center

Advanced Driving Assistant Systems (ADAS) have rapidly progressed in recent years due to the advancements in vehicle sensor and communication technologies. Semi-autonomous cars using ADAS functions are on the road today; fully-autonomous functions, like highway autopilot, are in tests currently and fully-autonomous cars are expected by 2025. Autonomous cars demand highly robust sensing of the surroundings based on combined video cameras, RADAR, LIDAR and ultrasound sensors. The full potentials of ADAS can be only achieved, if vehicles are seamlessly connected to infrastructure (V2I) and by Vehicle to Vehicle (V2V) communications. The 3D Systems Packaging Research Center of Georgia Tech, Atlanta is developing a large scale industry consortium involving companies in US, Europe, Japan and Korea to all the critical technologies necessary for autonomous driving and for all electric cars.

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