

## **Lorentz Solution to Jointly Present with Stanford University at the TSMC 2012 OIP Ecosystem Forum on EM Design for Silicon Millimeter-wave IC**

*Lorentz Solution's EM Design Platform, particularly the High Frequency Designer, provides maximum design automation in enabling millimeter-wave design closure*

**SANTA CLARA, Calif. — Oct 12, 2012 —** Lorentz Solution, Inc., the world's leading provider of Electromagnetic (EM) Design Platform Solutions for RF and High Speed Integrated Circuit Designs, today announced that it is presenting a paper jointly with Stanford University at the upcoming TSMC 2012 Open Innovation Platform Ecosystem Forum. The paper presents a millimeter-wave distributed phase shifter designed with the use of PeakView High Frequency Designer (HFD). At these operating speeds electromagnetic effects are critical for devices and also for interconnect.

Lorentz Solution has solved the biggest problem that designers of millimeter-wave circuits face: integrating electromagnetic design with high speed analog design flows to address EM-centric design challenges.

"PeakView was used to capture EM effects at 50 to 70 GHz in our designs. Traditional RC extraction is not adequate for analysis of differential transmission lines, CPW lines and interconnect at these frequencies," said Stanford's co-author Kamal Aggawal, "Piece-by-piece EM modeling is time-consuming and does not represent true design parasitics. Peakview HFD allows for a significant automation of EM design in a new EM-centric IC design paradigm shift."

Lorentz Solution has been working closely with Stanford University to apply its leading-edge development work on EM design automation for millimeter-wave frequencies. Cooperation with major Universities and foundries is an important part of how Lorentz Solutions evolves its electromagnetic design platform. Extending an EM platform to millimeter-wave designs requires tremendous efforts in theoretical and computational electromagnetics, nanometer millimeter-wave measurements, multiple EDA tools integration, and real silicon design applications.

"It is a privilege to share our results at the OIP Ecosystem Forum in the area of RF and millimeter designs on advanced process nodes, particularly those from working with a uniquely talented university research team. " said Jinsong Zhao, President and Founder of Lorentz Solution. "A high percentage of our R&D and Application team have doctoral degrees, and we invest heavily in advanced EM/modeling algorithms and game changing design automation to help users achieve maximum team design efficiency and silicon predictability."

### **About Lorentz Solution, Inc**

Lorentz Solution, Inc is the industry leader in supplying electromagnetic (EM) design capabilities to RF, high-speed analog and high-speed digital design community. PeakView™ EM Design Platform, Lorentz's flagship product, is widely adopted by top IDM, fabless companies

and semiconductor foundries. Based in Santa Clara, California, USA with initial funding from US-based VC firms, Lorentz Solution is continuing its multi-year profitable growth.

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