2016 IEEE MTT-S Latin America Microwave Conference (LAMC 2016)
Puerto Vallarta, Mexico, Dec. 12-14, 2016

Special Sessions

SS-1: Signal Integrity and Power Integrity Challenges for Internet Infrastructure Physical Layer (Mo-2)

Day: Monday, December 12
Room: Violeta/Tulipan
Time: 9:15–10:35

Organizers:

Mike Resso and Heidi Barnes (Keysight Technologies)

Abstract:
Today's internet infrastructure demands the highest level of signal integrity as well as power integrity within the physical layer. Backplanes, line cards, cables and subsystems must transmit error free data at serial rates of 56 Gigabits per second and higher over copper. This design challenge must be met with measurement and simulation tools that can provide correlation of data between time domain, frequency domain, and eye diagrams. This special session will include worldwide expertise in these engineering disciplines as well as academia to provide useful information for high speed digital designers.

Time	ID	Paper#	Title / Authors / Affiliations
9:15 to 9:35	Mo-2-1	-	**PAM-4 Channel Equalization Tips and Techniques** Heidi Barnes Keysight Technologies, Santa Rosa, CA, USA
9:35 to 9:55	Mo-2-2	187	**A New Method to Verify the Accuracy of De-Embedding Algorithms** Mike Resso[1], Eric Bogatin[2,3], Aayushi Vatsyayan[3] [1]Keysight Technologies, Santa Rosa, CA, USA, [2]Teledyne LeCroy, USA, [3]University of Colorado, Boulder, USA
9:55 to 10:15	Mo-2-3	-	**Frequency-Dependent Current Distribution of Edge-Coupled Interconnects: How it modifies the electrical characteristics of differential links** Diego M. Cortes-Hernandez Intel Guadalajara Design Center, Mexico
10:15 to 10:35	Mo-2-4	169	**Extending the Usable Range of the 2-Port Shunt Thru Impedance Measurement** Steven M. Sandler Picotest, Phoenix, AZ, USA