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**ELECTRICAL & COMPUTER  
ENGINEERING**  
TEXAS A & M UNIVERSITY

## SEMINAR

**Room 1037 ETB**

November 17, 2015 3:55-5:10 P.M.

**Silicon Photonics in the Data Center**

by

Marco Fiorentino  
Hewlett Packard Enterprise's System Research Lab

**Abstract:** Recent trends show an explosion in the amount of data being created each year. In response to this trend new system architectures optimized for data-centric workloads are being developed. These architectures can only be brought to fruition by developing new technologies to transmit, compute, and store data. My talk will focus on the impact of photonics, and silicon photonics in particular, on these trends and discuss the work being done at HP labs to advance these technologies.

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**Marco Fiorentino** received his Ph.D. in Physics from the University of Naples, Italy in 2000. Since he has held positions at Northwestern University, the University of Rome, and MIT. He is currently at Hewlett Packard Enterprise's System Research Lab where he works on silicon photonics and photonic interconnects.