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Exhibition February 3-4, 2009

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Schedule

9-WP2

40/100 Gbps Transmission over Copper: Myths and Realities

Wednesday, February 4 | 2:50 pm – 3:30 pm

Ali Enteshari, Ph.D. Candidate, Center for Information and Communications Technology Research, **The Pennsylvania State University**
Mohsen Kavehrad, Professor, **The Pennsylvania State University**

This paper focuses on assessment and design of ultra-high-speed data transmission systems for distribution of digital signal over standard Category 7 copper cables. The main contribution of this paper is on the technical feasibility and system design for data rates of 40 and 100 Gbps over copper. Our simulation results confirm that with the aid of decision-feedback equalizer and powerful coding techniques, e.g., turbo code or low-density parity check code, 40 Gbps transmission is feasible over 50 m of CAT-7A copper cable. These results also assure that 100 Gbps transmission can be achieved over 20 m cables.



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