

Symposium Speaker

Full Name	Yuanqiu Luo
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Presentation Title	Converged Next-Generation Passive Optical Network: Standardization and Research Progresses

Biography

Dr. Yuanqiu Luo has been heavily involved in the R&D effort of optical access networks for more than 15 years. She is an Editor and key technical contributor of PON standards such as ITU-T Recommendations G.987.3 (XG-PON), G.989.2 (NG-PON2), G.9802 (Multi-wavelength PON), and G.9807.1 (XGS-PON). She was a Clause Editor of IEEE Standard 802.1AS on PON time synchronization. Her major projects include the first XG-PON trial with Verizon, PON as wireless xhaul, and the first NG-PON2 prototype system. She is currently a Principal Engineer in the Optical Access Network Department of Futurewei Technologies, Huawei R&D, USA.

She received the Ph.D. degree in electrical engineering from New Jersey Institute of Technology, Newark, NJ, USA. She authored more than 60 publications, and holds more than 30 patents. She was honored with an IEEE Standards Award in 2011. Dr. Luo is an IEEE Senior Member, and has served the research community as an Editor of IEEE Communications Surveys and Tutorials and an Editor of Springer Photonic Network Communications.

200 words abstract

This talk reviews the status of passive optical network (PON) standards and product developments. It focuses on the latest effort in ITU-T, IEEE, and BBF to promote a converged next-generation PON. Requirements and motivations of a converged high-speed PON are analyzed. Application scenarios of a converged high-speed PON in operators' network are studied. Candidate technologies along with their research results are investigated. This talk compares the mainstream options, reviews the directions, and discusses the challenges in the converged high-speed PON area.