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Home Network Performance Diagnosis

Abstract

With the availability of cheap broadband connectivity, Internet access from the home has become a ubiquity. Typical home communication and entertainment services such as telephony, television, and gaming are converging to operate over IP and users constantly access Internet services and applications from home. Modern households host a multitude of networked devices, ranging from personal devices such as laptops and smartphones to printers and media centers. These devices connect among themselves and to the Internet via a local-area network—a home network—that has become an important part of the “Internet experience”, and consequently, has started to attract the interest of the network monitoring community. Our long-term goal is to assist users with concrete indicators of the causes of potential problems and—ideally—ways to fix them. In this talk, I’ll present our research in home network diagnosis.

Biographical Sketch

Renata Teixeira received the Ph.D. degree in computer science from the University of California, San Diego, in 2005. During her Ph.D. studies, she worked on Internet routing at the AT&T Research. She was a researcher with the Centre National de la Recherche Scientifique (CNRS) at LIP6, UPMC Sorbonne Universites, Paris, France from 2006 to 2013. She joined Inria Paris-Rocquencourt as senior researcher in October 2013. She was a visiting scholar at UC Berkeley/ICSI in 2011. Her research interests are in measurement, analysis, and management of data networks. She has authored more than 50 papers in this area. Renata is vice-chair of ACM SIGCOMM. She serves in the editorial board of the IEEE/ACM Transactions on Networking and of the ACM SIGCOMM Computer Communication Review. She is also a member of the steering committee of the ACM Internet Measurement Conference and has been active in the program committees of ACM SIGCOMM, ACM IMC, PAM, IEEE INFOCOM, among others.