



Ciclo de Seminários

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NetMicroscope: Passive Measurements of Residential Internet Performance

As access network speeds increase, the access link is less and less often the performance bottleneck for home users. In this context, performance tests a la "speed test" are rapidly becoming inadequate. First, they measure capacity to a dedicated server, not to real application servers. Second, they are becoming too disruptive as they must send enough probes to fill up the link. Instead of focusing on active measurements of access performance, our goal is to develop a mostly passive measurement system to monitor the performance of user applications. This talk will discuss our current system which measures video streaming quality completely passively. We will also discuss the lessons learned from deploying this system in 50 homes in the US and 10 homes in France.

Renata Teixeira is a senior researcher at Inria Paris and visiting scholar at Stanford University. She received her 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 was a visiting scholar at UC Berkeley/ICSI in 2011. Her research interests are in measurement, analysis, and management of data networks.

quarta-feira

27 de fevereiro

11:00hs

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