Distributed Management for Multihoming in Information-Centric Networks

Mots clés :
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Résumé du projet de recherche (Langue 1)

Information Centric Networking (ICN) proposes a clean-state architecture as an alternative to current TCP/IP architecture, where contents are at the heart of the architecture and the protocols running on top of it. In this context, transport mechanisms were left as open issue for development and specification and where several works have been proposed to matched several functions at this layer. In this thesis, our aim is to propose a novel, multi-homed, reliable transport protocol that is both efficient in an ICN context and TCP-friendly. We will first specify such proposal, implement and evaluate its performance. We will second compare its performance with existing, state-of-the-art proposals. Our work will be based on mathematical modeling as well as simulations, using existing tools such as NS and/or Matlab.