



Spring 2021 Colloquium

Department of Computer and Information Sciences

Open Marketplace and Service Orchestration in Virtual Network Environments

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Zoom Link: <https://temple.zoom.us/j/7348129717>

Abstract: A key challenge in multi-vendor heterogeneous virtual networks is providing transparent access to network resources and virtual functions in a manner that enables users to combine them appropriately into meaningful end-to-end services. In this talk, we present a solution that consists of two components: an open marketplace where vendors and users of network resources and functions meet to establish economic relationships; and a planning service for creating end-to-end communication services from functional building blocks available in the marketplace. We also present optimal yet efficient algorithms for tackling variants of the associated service chain routing problem.



Bio: George Rouskas is an Alumni Distinguished Graduate Professor and the Director of Graduate Programs in the Computer Science Department at NC State University, and an IEEE Fellow. He received a degree in Computer Engineering from the National Technical University of Athens, and the M.S. and Ph.D. degrees in Computer Science from Georgia Tech. His research interests include network architectures and protocols, optical networks, network design and optimization, and performance evaluation, and he is a recipient of an NSF CAREER Award. He currently serves as the founding Editor-in-Chief of IEEE Networking Letters and on the Steering Committee of the OFC conference.