ΚΑΡΑΓΙΑΝΝΗΣ ΘΩΜΑΣ
(Microsoft Research Cambridge, UK)

ΠΡΟΣΚΛΗΣΗ ΣΕ ΟΜΙΛΙΑ

Thomas Karagiannis is a senior researcher with the Systems and Networking group of Microsoft Research Cambridge, UK. His research interests span most aspects of computer communications and networks with his current focus being on data centers and cloud networking. In the past, we he was involved in the areas of Internet measurements and monitoring, network management, home networks and social networks. He holds a Ph.D. degree in Computer Science from the University of California, Riverside and B.S at the Applied Informatics department of the University of Macedonia, in Thessaloniki, Greece. Thomas has published more than 50 papers in the premier venues for computer communications and networking and has served in several of the corresponding technical program committees.

Τετάρτη 24 Οκτωβρίου 2018
ώρα 11:00 -13:00
Αίθουσα Δ31 της ΣΘΕ

"Towards a Predictable and Scalable Cloud"

Abstract

As the vast majority of online applications and services are moving to the cloud paradigm, properties such as predictability and high-performance have become key requirements for major cloud providers. Yet, these properties have been notoriously elusive in modern massive data centers where infrastructure and computing resources are shared across applications and users.

In this talk, I will provide an overview of the efforts I was involved in at Microsoft Research towards ensuring predictable and high-performant data centers, across all layers of the stack, from the physical to the application layer. I will briefly describe Microsoft's planet-scale cloud infrastructure, and then discuss how simple abstractions can help towards predictable performance for shared cloud resources like the network and storage. Finally, I will describe our recent efforts to ensure the scalability of cloud architectures by taking advantage of advances in optical technologies.