

TECHNOLOGIES AND ARCHITECTURE OF THE FUTURE INTERNET

8 November 2012 - XII SEMANA DE LA CIENCIA

Speaker

Tilman Wolf, Professor of Electrical and Computer Engineering, University of Massachusetts Amherst; Visiting Researcher, Institute IMDEA Networks

Abstract

The future Internet needs to provide enough flexibility to allow the dynamic deployment of new network protocols, support heterogeneous end-systems, provide novel communication abstractions, and exhibit inherent security and manageability. In this talk, I present an overview of various technological drivers that shape current developments in network architecture research. I will discuss how programmable routers and network virtualization provide the basis for adaptability in the network and present some of the related research problems. I will also provide an overview on ongoing research projects that aim to provide novel network architectures that may become the core of the future Internet.

This event will be conducted in English and will be followed by a Q&A session.

Who is Tilman Wolf?

Tilman Wolf is Professor of Electrical and Computer Engineering at the University of Massachusetts Amherst and a Visiting Researcher at Institute IMDEA Networks. He received a Diplom in informatics from the University of Stuttgart, Germany, in 1998 and a D.Sc. in computer science in 2002 from Washington University in St. Louis. He is engaged in research and teaching in the areas of computer networks, computer architecture, and embedded systems. His research interests include network processors, their application in next-generation Internet architectures, and embedded system security. Dr. Wolf is a senior member of the IEEE and the ACM.

<http://www.ecs.umass.edu/ece/wolf/>

This event has been organized by the Institute IMDEA Networks in collaboration with the Higher Polytechnic School, University Carlos III of Madrid, Leganés Campus.

Date & Time

Semana de la Ciencia 2012 ranges from November 5th to 18th. Our event will take place on November 8th, from 11:00 to 13:00.

Venue

University Carlos III of Madrid

Avenida de la Universidad, 30, 28911 - Leganés, Madrid

Building: Rey Pastor (Library)

Third Floor, "Sala de Juntas", Room 3.1.B01

Capacity: 50