ΠΡΟΣΚΛΗΣΗ ΣΕ ΟΜΙΛΙΑ

Την **Τετάρτη 3 Δεκεμβρίου 2014**, **ώρα** **13:00 – 14:00** στην **αίθουσα συνεδριάσεων (ΑΣ)** του Τμήματος Μηχανικών Η/Υ & Πληροφορικής-Κτίριο Β, θα δοθεί ομιλία από τον Καθηγητή **Πάνο Καλνή** (Associate professor of Computer Science in the King Abdullah University of Science and Technology – KAUST) με θέμα «**Big Data on Large Computers with Applications in Bioinformatics**».

Τίτλος Ομιλίας

Big Data on Large Computers with Applications in Bioinformatics

Περίληψη

Modern applications, including bioinformatics, stock market prediction, or intrusion detection in web servers, depend on the analysis of very large datasets in the form of long sequences (e.g., DNA) or large graphs (e.g., interactions among proteins). Because of the size and complexity of such datasets, processing requires very large computing infrastructures. This talk will give an overview of the work done in the InfoCloud group at KAUST. Our research focuses on the efficient indexing and implementation of generic operators, such as finding all frequent subgraphs in a large graph, that can be used by applications to speedup the data mining and knowledge extraction processes. We will show that our methods scale to orders of magnitude larger datasets than existing approaches, and can run on a variety of computing infrastructures, including stand-alone workstations, Linux clusters, cloud (e.g., Amazon EC2) and supercomputers with tens of thousands of processors.

Βιογραφικά Στοιχεία

Panos Kalnis is associate professor of Computer Science in the King Abdullah University of Science and Technology (KAUST). He is leading the InfoCloud group that focuses on Big Data. In 2009 he was visiting assistant professor in Stanford University. Before that, he was assistant professor in the National University of Singapore (NUS). In the past he was involved in the designing and testing of VLSI chips in the Computer Technology Institute, Greece. He also worked in several companies on database designing, e-commerce projects and web applications. He is an associate editor for the IEEE Transactions on Knowledge and Data Engineering and serves on the editorial board of The VLDB Journal. He received his Diploma in Computer Engineering from the Computer Engineering and Informatics Dept., University of Patras, Greece in 1998 and his PhD from the Computer Science Dept., Hong Kong University of Science and Technology (HKUST) in 2002. His research interests include Big Data, Analytics, Cloud Computing, Distributed Systems, Large Graphs and Sequences. More information can be found at: http://web.kaust.edu.sa/faculty/PanosKalnis/