

Distinguished Lecturer Series “Leon the Mathematician” at the Department of Informatics, Aristotle University of Thessaloniki Greece (<http://dls.csd.auth.gr>)



CELEBRATING
1992 - 2012
YEARS

CONVOCATION ADDRESS AND INVITED LECTURE

The Aristotle University of Thessaloniki will confer the title of *Doctor Honoris Causa* to **Professor Christos Faloutsos** (Carnegie Mellon University, USA), ACM Fellow, at the **Ceremony Hall** of the Aristotle University on **Wednesday May 30th, 2012** at **11:00**. Professor Faloutsos' convocation address is entitled

Mining Large Social Networks: Patterns and Anomalies

ABSTRACT

What do graphs look like? How do they evolve over time? How to handle a graph with a billion nodes? We present a comprehensive list of static and temporal laws, and some recent observations on real graphs (like, e.g., “eigenSpokes”). For tools, we present “oddball” for discovering anomalies and patterns, as well as an overview of the PEGASUS system which is designed for handling billion-node graphs, running on top of the “hadoop” system.

On **Thursday May 31st, 2012, at 12:00**, Professor Christos Faloutsos is going to lecture on

Influence Propagation in Large Graphs - Theorems and Algorithms

at the **Auditorium I of Aristotle University Research Dissemination Center – ΚΕΔΕΑ ΑΠΘ** (September 3rd Ave., University Campus).

ABSTRACT

Given the specifics of a virus (or product, or hashtag) how quickly will it propagate on a contact network? Will it create an epidemic, or will it quickly die out? The way a virus/product/meme propagates on a graph is important, because it can help us design immunization policies (if we want to stop it) or marketing policies (if we want it to succeed). We present some surprising results on the so-called 'epidemic threshold', we discuss the effects of time-varying contact networks, and we present fast algorithms to achieve near-optimal immunization.

ABOUT THE HONOREE:

Professor **Christos Faloutsos**

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Christos Faloutsos is a Professor at Carnegie Mellon University. He has received the Presidential Young Investigator Award by the National Science Foundation (1989), the Research Contributions Award in ICDM 2006, the SIGKDD Innovations Award (2010), eighteen “best paper” awards, (including two “test of time”), and four teaching awards. He has served as a member of the executive committee of SIGKDD; he has published over 200 refereed articles, 11 book chapters, and one monograph. He holds five patents and he has given over 30 tutorials and over 10 invited distinguished lectures. His research interests include data mining for graphs and streams, fractals, database performance, and indexing for multimedia and bio-informatics data.