



AUTH ACM Student Chapter

INVITED LECTURE

Dr Aris Gkoulalas-Divanis

Research Scientist, Lead Investigator, Data Privacy, IBM Research - Ireland
is going to lecture on “**Privacy Challenges and Solutions for Data Sharing**”
at Room 1 of Department of Informatics - Aristotle University
(Kalamaria satellite venue - Ethnikis Antistaseos 16 Str., 2nd floor),
on **Monday June 8th, 2015 at 17:00**

ABSTRACT

Various types of personal data, such as patients’ electronic health records and customers’ purchase information, are increasingly collected and stored by organizations. This wealth of data could be used to support many applications, which would benefit both the data owners and the community, as a whole. As an example, electronic health records can be used to support research for personalized medicine, leading to the discovery of new drugs and therapies for the patients. To support such applications, data increasingly needs to be disseminated beyond the institution they were collected by. This, however, may pose serious threats to individuals’ privacy, which must be eliminated prior to sharing the data, in order to comply with worldwide data sharing policies and legislation. In this talk, we will elaborate on the need of sharing data in a privacy-preserving way. We will then concentrate on the case of medical data sharing, and review state-of-the-art privacy models and methods that have been proposed for publishing medical data in a privacy- and utility-preserving way. Following that, we will present methods that have been recently proposed for automatically analysing datasets to discover privacy vulnerabilities. In the talk we will use many examples to illustrate the operation of the different privacy models and algorithms

About the Speaker:



Dr. Aris Gkoulalas-Divanis

Aris Gkoulalas-Divanis received the BS degree from the University of Ioannina, the MS from the University of Minnesota, and the PhD from the University of Thessaly (2009), all in Computer Science. His PhD dissertation received the Certificate of Recognition and Honourable Mention in the 2009 ACM SIGKDD Dissertation Award. From March 2009 until February 2010, he was appointed as a postdoctoral research fellow in the Department of Biomedical Informatics of Vanderbilt University, and on March 2010 he joined IBM Research in Zurich in the capacity of a Research Scientist. Since March 2012, he is working in the Smarter Cities Technology Center of IBM Research in Ireland, conducting research on data privacy for Smarter Cities. In this position he has received two Invention Achievement Awards (Plateaus) in appreciation and recognition of creative contributions to IBM progress. Aris Gkoulalas-Divanis is a regular reviewer for many top-tier journals and conferences, and he serves as a Category Editor for ACM Computing Reviews. His research interests are in the areas of databases, data mining, data privacy and privacy-preserving data mining. In these areas, he has given many seminars and two tutorials, he has published more than 70 research works, including four Springer books, and he has filed 14 patents. He is a Professional member of ACM, IEEE, SIAM and AAAS, and an at-large member of UPE and Sigma Xi