

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



## **INVITED LECTURE**

**Zoran Obradovic** (Laura H. Carnell Professor of Data Analytics, Data Analytics and Biomedical Informatics Center, Computer and Information Sciences Department & Statistics Department, Temple University, USA) is going to lecture on

### **Fusion of Qualitative Knowledge and Big Data for Predictive Analytics in Healthcare**

at the **Auditorium of the Central Library** of the Aristotle University of Thessaloniki on **Tuesday June 28<sup>th</sup>, 2016 at 14:00.**

#### **ABSTRACT**

In this talk we will present an overview of our ongoing projects aimed to facilitate predictive analytics in healthcare. Challenges related to structured regression on multilayer networks, modeling positive and negative influences, uncertainty propagation and effective integration of domain knowledge and big data and the proposed solutions to these challenges will be discussed. The algorithms will be evaluated in the context of applications related to estimating hospitalization cost, predicting admission and mortality rate for high impact diseases at a large number of hospitals, identifying disease relationships and discovering gene-disease interactions.

## About the Speaker:

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**Zoran Obradovic** is an Academician at the Academia Europaea (the Academy of Europe) and a Foreign Academician at the Serbian Academy of Sciences and Arts. He is a L.H. Carnell Professor of Data Analytics at Temple University, Professor in the Department of Computer and Information Sciences with a secondary appointment in Department of Statistical Science, and is the Director of the Center for Data Analytics and Biomedical Informatics. His research interests include data science and complex networks applications in health management and other complex decision support systems. Zoran is the executive editor at the journal on Statistical Analysis and Data Mining, which is the official publication of the American Statistical Association and is an editorial board member at eleven journals. He was general co-chair for 2013 and 2014 SIAM International Conference on Data Mining and was the program or track chair at many data mining and biomedical informatics conferences. In 2014-2015 he chaired the SIAM Activity Group on Data Mining and Analytics. His work is published in more than 320 articles and is cited about 16,500 times (H-index 48).