Dear All,

the next seminar on Data science, complex networks and mathematical modelling will be on the 9th of Nov, from 15:00.

The place of the seminar will be the 2nd floor seminar room of the Arpad ter building. The language of the seminar will be English.

It will be a special seminar with 2 speakers from the University of Novi Sad.

Speaker 1: **Ivan Lukovic**: Formal Education in Data Science: A Perspective of Serbia and Faculty of Technical Sciences

Speaker 2: **Vladimir Ivancevic**: An overview of Selected Research Studies in Data Analytics and Data Science at the Faculty of Technical Sciences in Novi Sad, Serbia

**Presentation 1 by Ivan Luković,**

Full Professor, University of Novi Sad, Faculty of Technical Sciences

Title: Formal Education in Data Science – A Perspective of Serbia and Faculty of Technical Sciences

Abstract

In the last years, Data Science becomes an emerging education and research discipline all over the world. Software industry shows an increasing and even quite intensive interest for academic education in this area. The similar trend has been noticed in Serbia, particularly in Belgrade and Novi Sad. In this talk, we discuss main motivating factors for creating a new study program in data science at Faculty of Technical Sciences of University of Novi Sad. Also, we present a short survey of software industry needs for data science related experts, and discuss how we structured the new study program and addressed the main issues that come from more than evident industry requirements. The program was accredited in year 2015, both at the level of bachelor and master level studies, and this school year is its first execution, from which we expect the new experiences.

**Presentation 2 by Vladimir Ivančević,**

Assistant Professor, University of Novi Sad, Faculty of Technical Sciences
Title: An Overview of Selected Research Studies in Data Analytics and Data Science at the Faculty of Technical Sciences in Novi Sad, Serbia

Abstract

Over the past several years, the Faculty of Technical Sciences in Novi Sad, Serbia, has been a home to an increasing number of research studies concerned with extraction of potentially valuable information from diverse data sets. Many of these research efforts were concentrated at the Chair of Applied Computer Science during a period in which data science started emerging as one of the most popular and promising new fields associated with computer science and informatics. The two most notable areas covered by these studies are education and medicine, both of which play an important role in the contemporary society and generate ample quantities of data. The education-focused studies dealt with a wide set of topics: a) exploring patterns in spatial distribution of students in a classroom, b) analysing student grades with respect to different factors, c) constructing programming tests automatically, and d) identifying position of engineering and technology education within the system of higher education in Serbia. The medicine-related studies centered upon epidemiology-oriented topics: a) creating a software system to support business intelligence in epidemiology and b) analysing collected data about early childhood caries to identify risk factors and create predictive models. Studies from both areas have provided some interesting findings and also managed to spur ideas for new research directions in theory and practice of data analytics and data science.

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