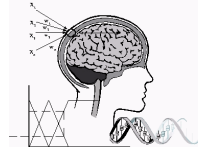




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Interdisciplinary Approaches in Data Science and Business Intelligence Practice (IADBIP 2018)

Name, Title and Affiliation of Chair:

Prof. Ivan Luković, University of Novi Sad, Serbia
Prof. Ralf-Christian Härting, University of Aalen, Germany

Details of Session (including aim and scope):

One of the ever hot issues in many organization systems is how to transform large amounts of daily collected operational data into the useful knowledge from the perspective of declared company goals and expected business values. The main concern of this invited session is a Business Intelligence (BI) and Data Science (DS) paradigms, as a set of theories, methodologies, processes, architectures, and technologies that transform raw data into meaningful and useful information, knowledge, and value. Various interdisciplinary oriented BI and DS approaches may provide organizations the ability to use their data to improve quality of business, increase financial efficiency and operational effectiveness, conduct innovative research and satisfy regulatory requirements. Applications of appropriate BI and DS implementation methodologies together with outcomes related to collaborative and interdisciplinary approaches are inevitable when applying BI approaches to large and complex organization systems. For many years, such interdisciplinary approaches were used in analyzing big data gathered from not only business sectors, but also public, non-profit, and government sectors.

The main goal of the session is to attract researchers from all over the world who will present their contributions, interdisciplinary approaches or case studies in the area of BI and DS. The focus may be set to various BI and Data Science aspects, such as: data warehousing, reporting, online analytical processing, data analytics, data mining, process mining, text mining, predictive analytics and prescriptive analytics, as well as various aspects of big data analysis and time series analysis. We express an interest in gathering scientists and practitioners interested in applying BI and DS approaches in public and government sectors, such as healthcare, education, or security services. However, experts from all sectors are welcomed.

Submissions are expected from, but not limited to the following topics:

- Data Science and Business Intelligence – Theoretical and practical aspects
- Data Science and Business Intelligence Applications and Industry Experience
- Digitization and impacts for Business Intelligence
- Business Intelligence, Digitization and data driven business models
- Business Analytics and the new role of IT in enterprises
- Impacts of Business Analytics for the performance of profit or non-profit organisations
- Data Warehousing, Data Mining, Online Analytical Processing, and Reporting Capabilities
- Statistical analysis and characterization, predictive analytics and prescriptive analytics
- Process Mining, Pattern Mining, and Swarm Intelligence
- Data quality assessment and improvement: preprocessing, cleaning, and missing data
- Semi-structured or unstructured data in BI systems
- Information integration for data and text mining
- Dynamic Pricing: potentials and BI Approaches
- Cloud-computing models and scalability in BI systems

- Mobile BI, Smart Data, Smart Services, and Smart Products
- Data privacy and security issues in Data Science and BI systems
- Digital Marketing, new web services, semantic web and data analytics
- Business Intelligence and Analytics for Healthcare and other Public Sectors
- Educational Data Mining
- Social network data analysis
- Web survey methods in Business Intelligence and Data Science
- Organizational and human factors, skills, and qualifications for BI and DS Approaches
- Teaching BI and DS approaches in academic and industrial environments

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Website URL of Call for Papers (if any):

<http://kes2018.kesinternational.org/cms!Sdisplay.php>

Email & Contact Details:

Ivan Luković: ivan@uns.ac.rs
<http://www.acs.uns.ac.rs/en/user/10>

Ralf-Christian Härting: Ralf.Haerting@hs-aalen.de
www.kmu-aalen.de/
<https://www.hs-aalen.de/en/users/173>