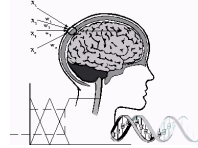




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Interdisciplinary Approaches in Business Intelligence Research and Practice (IABIRP 2017)

Name of Chair:

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

Details of Session:

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) paradigm, as a set of theories, methodologies, processes, architectures, and technologies that transform raw data into meaningful and useful information and knowledge. Various interdisciplinary oriented BI 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 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. 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 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
- Business Intelligence Applications and Industry Experience
- Digitization and impacts for Business Intelligence
- 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
- Data privacy and security issues in 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
- Organizational and human factors, skills, and qualifications for BI Approaches
- Teaching BI approaches in academic and industrial environments

Website URL (if any):

<http://idt-17.kesinternational.org/cmsISdisplay.php>

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