

Introduction to the Business Intelligence for Innovative, Collaborative and Sustainable Development of Organizations in Digital Era Mini-track

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This mini-track sought papers that provide a theoretical, conceptual, and applied grounded discussion of Business Intelligence (BI) to: (1) aid organizations in innovative, collaborative and sustainable development, (2) provide the added value to the development of organizations and their decision-making process, (3) support organizational creativity, (4) design intelligent information systems and build decision support systems in organizations, and (5) use tools and solutions to achieve innovative, collaborative as well as sustainable development of organizations in digital era.

The mini-track includes two papers. The first paper, titled *Intelligent Technologies supporting the management of a smart city. Qualitative approach* focuses on the role and meaning of intelligent solutions in the process of a smart city management based on a qualitative approach. The authors (Andrzej Sobczak and Leszek Ziara) try to find the answers to the following research questions: (1) what intelligent technologies are applied in the management of smart cities?, (2) what areas of a city's management are supported by intelligent technologies?, (3) what is an impact of intelligent solutions on the creation of a city's strategy?, (4) what is the specific role and features of intelligent solutions supporting decision making process at all of its stages and levels in smart cities?

This study showed that the smart city does not only rely on technology in its functionality but the crucial is its appropriate management including making proper decisions. The technology plays a supporting role here, and new promising AI solutions which are still developed and improved will have a positive effect on the perfectness of the whole decision-making process. The research results proved that intelligent solutions in the process of smart city management positively and significantly affect efficacy, efficiency, quality, and acceleration of the decision-making process and also support the creation of a particular city development

strategy. The BI and AI are applied in the support of many management areas at all stages of the decision-making process as well as on all its three levels: strategic, tactical and operational.

In the second paper titled *Disruptive Technologies as a Driver to Organizational Success. Organizational Culture Perspective*, Celina M. Olszak and Marcin Pałys investigated the issue of the Disruptive Technologies' (DT) impact on organizational success, in particular identifying the benefits of using DT in organizations, as well as examining to what extent organizational culture can be a factor in enhancing organizational success.

This study showed that such technologies as Business Intelligence, Big Data, Mobile Technologies, and Data Warehousing can play a strategic role in achieving organizational success. They contribute to several benefits, especially in supply chain management, customer services, marketing, and HR. This study reflected the correlation between organizational culture and achieving success. For example, the organizations that are looking forward to implementing innovative products or services push for an organizational culture not afraid of change. Better market position is correlated with implementing significant attention to professional data analysis, analytical skills, and the use of various IT tools as well as being open to new and honest ideas from the stakeholders. Moreover, organizations open to ideas from employees tend to create innovative products or services and improve the quality of well-being of various social groups. The survey illustrated that organizations that support teamwork and sharing ideas more often achieved high activity in the digital world, the internet, and social media.

We hope that the discussion undertaken under this minitrack will accelerate the convergence process of various disciplines such as strategic management, computer science, database and data warehouse technologies, computational intelligence and soft computing, psychology, and social sciences. It seeks to revitalize scientific discussion and to establish closer

cooperation with international research centers dealing with BI use in organizations.