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New Technologies, Development and Application II

 Springer

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Interdisciplinary Research of New Technologies, Their Development and Application

The content of this book is very interesting and important as it covers a wide range of new technologies and technical disciplines including complex systems such as: cyber-physical systems, robotics, mechatronics systems, automation, manufacturing, autonomous systems, sensor, networks, control systems, energy systems, automotive systems, biological systems, vehicular networking and connected vehicles, effectiveness and logistics systems, smart grids, nonlinear systems, power systems, social systems, economic systems and other. The papers included in this content have been presented at the International Conference New Technologies, Development and Application, held in Sarajevo, Bosnia and Herzegovina, on 27–29 June 2019. Majority of organized conferences are usually focusing on a narrow part of the issues within a certain discipline while conferences such these are rare. There is a need to hold such conferences. The value of this conference is that various researchers, programmers, engineers and practitioners come to the same place where ideas and latest technology achievements are exchanged. Such events lead to the creation of new ideas, solutions and applications in the manufacturing processes of various technologies. New coexistence is emerging, horizons are expanding, and unexpected changes and analogies arise. Best solutions and applications in technologies are critically evaluated.

The first chapter starts with the implementation of Industry 4.0, cyber-physical systems, robots, robots systems, mechatronic systems, automation of production processes and advanced production. The first article provides an analysis and implementation of Industry 4.0 and robotic systems. The next article presents the new concept of restructuring system in the manufacturing processes of companies. The following article analyses the adaptation of intelligent mobile robots in a changing environment. One of the papers provides a series of approaches that serve as the basis for development and application of the principles and the Kaizen concept of Lean Six Sigma (LSS) in the wood processing sector. The last article offers the definition of a mass unit, kilogram, in two experiments.

The second chapter is devoted to innovative and interdisciplinary applications of advanced technologies (IATs). The first article is about Smart Campus Project which addresses necessary analysis and recommendations for the implementation of

a smart and sustainable campus. The second article gives a brief overview of the swarm intelligence algorithm used in software engineering. The third article provides an analysis of the performance of the HDLC protocol for data transmission, detection and correction of traffic error, which is used in data exchange for one physical channel. The last work in this chapter offers an analysis of the economic efficiency and its components of B&H and groups of comparative countries.

The third chapter is devoted to transport systems, logistics and intelligent transport systems. This chapter starts with intelligent mobility. The second article provides a computer simulation of the collision phase of two vehicles with two approaches: one approach is based on energy, and the other approach is based on the impulse. Another article is TSCLab (laboratory for controlling traffic), MATLAB's tool for the evolution of the adaptive traffic control system (ATCS). One of the articles offers an ergonomic driver's seat for the created virtual environment of mid-range cars.

The fourth chapter is devoted to electric power systems with a different spectrum of topics. The first article is about development in solar power micro gas turbines and waste heat recovery. The second is about laboratory research of the influence of pulsating flow of flue gases on heat transfer. Next are the development of a system for the drainage of oil vapour from the housing of large hydraulic aggregates and then the possibility of using coal with biomass in a thermal power plant to the impact of using electric cars on the environment.

Chapter Five is devoted to new methods in the agricultural culture of a wide range of topics: removing heavy metals from water such as Pb (II) and Zn (II), improving the quality of mineral water using a selective ion-exchange column, then establishing the level of heavy metals (Pb, Cu, Zn) and health risks assessment based on the contents of heavy metals in urban soil, assessment of the water quality of the Una River in the Una National Park on the basis of selected microbiological parameters, as well as research of the biological characteristics of the distribution of chestnut gall wasp (*Dryocosmus kuriphilus* Yasumatsu) in Bosnia and Herzegovina.

The sixth chapter focuses on the field of geodesy, construction, new materials and sustainable innovation and others. The first article focuses on the detection of changes in the river bed, and the identification of boundary changes using topographic data from different epochs. The following article analyses the building thermal insulation material based on sheep wool, the advantages and disadvantages of the production of explosive materials "IN-SITU" ("NALIM" technology). One article gives new approaches and techniques of motivation for construction industry engineers in B&H, then assessing the active efficiency of active charcoal with filter in the process of water purification. One of the articles describes sustainable innovations in architectural design.

The whole content of this book is intended to a wide range of technical systems, different technical disciplines in order to apply the latest solutions and achievements in technologies and to improve manufacturing processes in all disciplines where systemic thinking have a very important role in the successful understanding and

building of human, natural and social systems. This content is the second in a series of publications that are intended to the development and implementation of new technologies in all industries.

Isak Karabegović

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