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World Multidisciplinary Civil Engineering, Architecture, Urban Planning Symposium (WMCAUS 2018)

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Preface

This volume of IOP conference series Material Science and Engineering contains papers presented in the “World Multidisciplinary Civil Engineering, Architecture, Urban Planning Symposium” which was held in the city of romance Prague (Czech Republic) during 18-22 June 2018. Third World Multidisciplinary Civil Engineering, Architecture, Urban Planning Symposium (WMCAUS) presented opportunities for future cooperation and provided a forum for a discussion of the latest theoretical findings, discoveries of new technologies and their implementations into different fields of Civil Engineering, Architecture and Urban Planning.

Symposium WMCAUS 2018 fulfilled its main mission of combining efforts and sharing ideas of scientists, engineers, architects and urban planners, in order to create a sustainable built environment, to protect historical structures and preserve them for future generations, and to improve quality of life in every living place.

The topics of this year’s symposium were the following: "Construction Management and Engineering, Construction Materials, Geotechnics, Hydromechanics, Structural Engineering, Building Performance Simulations, Transportation, Architectural Space, Social Sciences and Architecture, Architectural Culture, Theories of Vision and Visuality, Architectural Design and Methods, Architectural Historiography, Architectural Heritage and Conservation of Historical Structures, Sustainability in the Built Environment, Urban Planning, Public Space, Urban Design, Theories and Methods in Civil Engineering and Architecture, Regional Planning, Archaeological Methods and Theories, Sustainable Urban Development, Urban Sociology, Economics and Politics in Civil Engineering, Risk Management and Mitigation Planning, GIS-Based Modelling for Mitigation Planning, Computer Aided Design, Mathematical and Statistical Methods, Integrated Coastal Zone Planning and Management, Accreditation of Civil Engineering and Architecture, City and Regional Planning Education, along with specific topics such as Technology, organization and management in construction projects; Remote sensing and GIS applications; Spatial changes of the city in the light of



the idea of balancing development and restoring spatial order; Innovation in metropolitan regions; New experiences in the field of preservation and reuse of architectural and landscape heritage in China.

WMCAUS 2018 was the third event with more than 700 active participants, and in the future it is expected that it will be organized annually. WMCAUS represents a traditional style of a symposium, with friendly and very fruitful atmosphere which a world symposium must have, and this is not a festival-like super-large convention, which is too chaotic and busy, but an event where people have a chance to discuss something in deep with other people from different countries and continents.

All the missions of World Multidisciplinary Civil Engineering, Architecture, Urban Planning Symposium (WMCAUS) were completed and preparations for the next WMCAUS have already started. In total, 696 peer reviewed articles grouped in ten sessions according to their topic are published. We cannot miss to thank to all reviewers for their great effort to achieve the high quality of published articles.

We would like to thank our sponsors, which created an unforgettable atmosphere and the symposium took place with a rich social program ended by an outstanding excursion to the historical city *Pisek* and its surroundings. We would also like to extend our gratitude to all the members of Organizing and Scientific Committee, especially the invited speaker prof. Andrea Segalini from University of Parma, Italy, and mainly all participants of WMCAUS 2018 from more than 55 different countries of the world for their interests and great contributions in WMCAUS 2018. We hope to see you again during the next event of WMCAUS, which will be held in Prague (Czech Republic) approximately in the similar period.

Marian DRUSA
Işık YILMAZ
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Chairmen of WMCAUS 2018