

Preface

The recent economic crisis has shown the world that short-term thinking is not beneficial for the society. Moreover, the effects of past short-term goals are becoming clearer and more evident, ranging from climate change, pollution to social impacts. Thinking in terms of sustainability is the new way to go and will, with certainty, lead to fundamental changes in the way the society thinks and acts to preserve resources for future generations.

Civil engineering is traditionally focused on construction. The meaning of “construction” however gradually extended to include all aspects of the built environment: buildings, lifelines, infrastructures and foundation soil. The tasks the modern civil engineer has to solve became so complex and so intricately connected to each aspect of the built environment that teamwork and collaboration between the fields of expertise is a must. Engineers are now faced with new challenges, like ageing infrastructure and buildings coupled with a strong demand to reduce the environmental impact of the construction industry as a whole.

The objective of the EBUILT-2016 International Conference is to strengthen the cooperation between academia, industrial partners and decision makers. The topics of the conference include all aspects met in civil engineering, from risk assessment, rehabilitation of buildings to construction management and legislation. At a glance, the topics of EBUILT-2016 International Conference are:

1. Safety, Reliability and Integrated Risk Management;
2. Maintenance and Rehabilitation of Buildings;
3. Sustainability, Innovative Materials and Design;
4. Performant Lifelines;
5. Indoor Environment and Energy Efficiency;
6. Applied Mathematics and Physics;
7. Engineering Graphics;
8. GIS, Remote Sensing and Urban Planning;
9. Transportation Infrastructure Engineering;
10. Soil Mechanics and Geotechnical Engineering;
11. Sustainable Management and Technologies in Constructions.

From the initially submitted 102 papers, 85 were finally accepted for publication after going through a peer review process by the members of the scientific committee. An significant effort was made to provide the authors with a rigorous and fair review of the papers. The Conference Organizing Committee was pleased with the large number of good quality contributions submitted and would like to thank to all the authors for their valuable contribution.

We are very grateful to the publication team for their dedicated work to ensure such a high quality publication.

Last but not least, we would also like to express our appreciation to all our industrial partners that helped us in making this conference a success.

Iasi, November 2016

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