Preface

The International Conference on Structural and Mechanical Engineering for Security and Prevention 2017 is a conference intended to be a forum for researchers in all related fields connected with the security, safety and prevention because of the security threats. Actually it’s became of great attention due to the worsening of the global security situation and increasing in terrorist acts using explosives as a means of terrorist fight. With the increase in terrorist attacks in recent years, the conference topics are highly current. The fact is that the terrorist attacks have moved from the world's battlefields such as Syria, Iraq or Afghanistan, into city centres (e.g. Oklahoma City, Madrid, Moscow, Bologna, London, Ottawa, New York, Boston, Paris, Nice and recently Manchester). But security treats occurs in the another area too. It is not only about terrorist attack, but the influence of extreme weather condition leads to crisis situation which have to be solved. Grave industrial accidents and security treats connected with the transport. The presented conference wanted to join the best researches whose work involve the area of safety, security and bring a new, stronger ideas for resolving problem.

This conference provides a forum for the presentation and discussion of the latest research advances and engineering-practice innovations with a focus on the new technologies and current practice related to the blast protection, mechanical and security engineering which brings together professionals from the engineering and scientific fields. The conference will also give you an opportunity to update and expand your technical knowledge with keynote and technical sessions, panel discussions, and short courses. The topics of conference include new materials for safety and security engineering; diagnosing and testing of materials; modelling and experiments; security technology of explosives; critical infrastructure protection; construction safety and security; underground structures and tunnels; risk analysis, assessment and management; emergency and crisis management; new standards on security engineering; rock and mining engineering; blast protection; seismicity and geomechanics; fire engineering.

This issue contains selected papers from the ICSMESP 2017, which took place in Prague, the capital of Czech Republic, from June 14 to June 16, 2017.

Finally, as guest editors, we would like to express our sincere appreciation to the members of the editorial committee and the advisory board for giving an opportunity to work with us. We are grateful to all the authors and reviewers of the manuscripts and especially to Michael Gaul, for his valuable advice and his support from NATO Emerging Security Challenges Division.

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