



SPECIAL EDITION OF “AVIATION”

Dear Readers,

The proposition to our readers, a Special Edition “Safety and Security in Aviation” published 5 articles by authors from Poland, Ukraine, United States, Russia and Latvia. A goal of this specific issue is to accumulate the articles which reveal the significance of searching the innovations and methods to improve the safety and security in aviation, necessity to meet the new challenges both in civil and military fields. These articles were selected, carefully revised and approved by Guest Editor Prof. Dr. Olja Čokorilo from Air Transport Department of Faculty of Transport and Traffic Engineering (University of Belgrade, Serbia). Prof. Olja Čokorilo is the famous expert of safety aviation in her country and is eminent abroad as well. Despite her position as Professor of Belgrade University, she is a President of Management Board of Civil Aviation Directorate of Republic of Serbia since 2015; a Member of EASA Member States Advisory Body (MAB) and Safety Promotion Network Community since 2016.

The first article published in this Special Edition was written by Polish and Latvian scientists who concentrated their research on analysis of deviation and irregularities in functioning of the airplane structural units. The second article was written by the team of Ukrainian and US scientists who have defined the model of triple probability density distribution in tasks of aviation risk assessment. The third article is proposed by researcher Mirosław Adamski (Dęblin, Poland), who has analysed effectiveness of UCAV used in latter-days military conflicts. The fourth article was compiled by scientists from Riga Technical University and they have considered the time of passenger evacuation from the aircraft accidents with the fire. Finally, the fifth article is prepared by Russian researchers with intention to estimate the impact of an in-flight vertical accelerometer calibration on landing accuracy considering the baro-inertial system failure.

In conclusion, I would like our readers, who are mainly interested in aviation safety and security issues in aviation, to receive novel and valuable information. We hope this could be useful for their further research into aircraft design, creating effective means to ensure flight safety, and achieving a high level of airport security services.

Sincerely yours,
Prof. Gintautas Bureika, Editor-in-Chief

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