
Guest editorial

12th READ Conference and 6th SCAD Symposium-Part 2

Dear reader,

It is our pleasure to present the second special issue of the *Aircraft Engineering and Aerospace Technology* journal, dedicated to the exceptional event that was joined *READ&SCAD Conference*. The Conference has been hosted by Polish Society of Aeronautics and Astronautics together with Warsaw University of Technology and Institute of Aviation on September 12-14, 2016.

During the combined *READ&SCAD Conference*, more than 80 participants from 12 countries showcased about 50 presentations. The program covered the following timely topics on emerging technologies for aerospace:

- 1 Aircraft design and optimization:
 - light aircraft design;
 - UAVs; and
 - electricity-powered aircraft.
- 2 MDO methods;
- 3 Aerodynamics;
- 4 Experimental research; and
- 5 Systems and safety problems.

Furthermore, distinguished invited speakers updated the delegates on the newest opportunities for carrying out aeronautics-related research, on available research infrastructure and novel research results. I would like to cordially thank the invited speakers Hannes Ross, Patrick Berry, Carlos Esteban Pinilla, Ray Whitford, Parithi Govindaraju and Krzysztof Piwek for their interesting presentations.

The following 11 conference papers have been selected for publication in this peer-reviewed special issue:

- 1 Galiński C., Krysztofiak G., Miller M., Ruchala P., Kalski M., Lis M., Dziubinski A., Bogdański, K., Stefanek Ł., Hajduk J., Wind Tunnel Tests of the Inverted Joined Wing and a Comparison with CFD Results.

- 2 Goraj Z., Kustroń K., Review of Current Research Trends in Bird Strike and Hail Impact Simulations on Wing Leading Edge.
- 3 Jungo A., Zhang M., Vos J., Rizzi A., Benchmarking New CEASIOM with CPACS Adoption for Aerodynamic Analysis and Flight Simulation.
- 4 Juretzko P., Immer M., Advanced Aircraft Performance Analysis.
- 5 Fusaro R., Viola N., Preliminary Safety Assessment Methodology for Trans-Atmospheric Transportation Systems.
- 6 Deák P., Vertical Tail FEA with a CAD/CAE Based Multidisciplinary Process.
- 7 Dziugiel B., Goraj Z., From statistics, Trough New Requirements to Mathematical Modelling of SAT Aircraft Safety.
- 8 Glowacki D., Rodzewicz M., Szczepanik T., Hajduk J., Experimental Investigations into Parachute Rescue Systems.
- 9 Cejpek J., Design of Composite Landing Gear for an LSA Airplane.
- 10 Dul F. A., Active Suppression of Freeplay Aeroelastic Vibrations of Ailerons by Robust Control Methods with Incomplete Measurements.
- 11 Dacko A., Bortkowski P., Lindstedt Ł., Rzymkowski C., Rodzewicz M., Structural Dynamics of a Girocopter – Numerical Approach in Some Emergency Cases.

The articles deal with different solutions for future aerospace challenges in the areas of novel configuration, aerodynamics, design methods, multidisciplinary optimization, safety problems, damage detection.

With great pleasure, I would like to thank Prof Zdobysław Goraj for his help and advice in the organization of the Conference and Prof Witold Wiśniowski, Director of Institute of Aviation in Warsaw, for hosting the Conference. I would also like to thank all authors for writing such excellent technical papers and the reviewers for their insightful critique and suggestions, which contributed directly toward improving the technical content of this special issue. Finally, I would like to thank the Editor-in-Chief of the *Aircraft Engineering and Aerospace Technology* journal Dr Askin T. Isikveren for his agreement and support in making this issue possible.



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