Editorial

Welcome to Volume 10, Issue 1 of *Journal of Aviation Technology and Engineering* (JATE). Over the past decade, JATE has grown and become a preeminent global open access peer-reviewed research journal which encompasses multidisciplinary fields of qualitative and quantitative research. During the past year, the COVID-19 pandemic posed unprecedented challenges. The long-term effects will continue to impact the industry.

Volume 10, Issue 1 of JATE contains five articles that have been selected for publication following a rigorous double-blind peer-review process.

This issue commences with *Design of Rotorcraft Performance-Based Navigation Routes and Procedures: Current Challenges and Prospects* by Austro Control GmbH's Carlos Gonzaga-Lopez. This research addresses both route spacing and instrument flight procedures as they pertain to the latest performance-based navigation helicopter routes. International Civil Aviation Organization endeavors for advancements in procedure and route design are discussed, as are gaps in current design criteria.

Camilo Fernandez Sr. of Universidad de Antioquia follows with *Changing the Process in Educational Field and Air Navigation through Advances in Hologram Technology*. This research explores the efficacy and potential of holographic radar, focusing particularly on how this technology may improve the cognitive load of the operator. Economic and safety impacts are addressed.

Next, a pair of researchers from Embry-Riddle Aeronautical University present *A Comparison of the Localized Aviation MOS Program (LAMP) and Terminal Aerodrome Forecast (TAF) Accuracy for General Aviation*. When flying a general aviation aircraft in instrument meteorological conditions, there is an increased risk of a fatal accident. This research examines aerodrome-specific forecasts, both TAF and LAMP, to determine which is superior.

Another team of Embry-Riddle Aeronautical University researchers follow with *Fatigue and Its Management in the Aviation Industry, with Special Reference to Pilots*. The role of fatigue as a contributing factor in aviation accidents is significant. This article defines fatigue and its impact, relates it to aviation accidents and incidents, and discusses countermeasures as well as the fatigue risk management system (FRMS). Recommendations for future research are also included.

The issue concludes with a group of four researchers from three universities which present *Service Quality and Passenger Satisfaction in Air Transportation in a Developing Economy: Evidence from Nigeria*. Here, the SERVQUAL model was utilized to measure five dimensions of service. Data were derived from questionnaires evaluating Nigerian domestic air travel. Results of this analysis will be used to improve satisfaction for passengers and industry stakeholders.

JATE continuously seeks professionals willing to share their expertise by serving as reviewers. Additionally, if you wish to receive custom e-mail notices, enable the JATE RSS feed, or submit an article for publication consideration, please visit http://docs.lib.purdue.edu/jate/

I sincerely thank you for your readership.

Mary E. Johnson, Executive Editor
Journal of Aviation Technology and Engineering

I would like to thank Dr. Mary Johnson for her contributions as Executive Editor of JATE. I have had the pleasure of working with Dr. Johnson over the past two years. During this time, JATE downloads have more than doubled, and now exceed 236,000 digital downloads.

On July 1, 2021, Dr. Johnson will be stepping down as Executive Editor of the JATE. She will continue to contribute to the success of JATE as an Associate Editor. On behalf of the current JATE associate editors, members of the editorial board,

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and Purdue University Press, we would all like to thank Dr. Johnson for her service and expertise. Additionally, we look forward to welcoming Dr. Joseph Hupy as new Executive Editor in our upcoming publication, JATE Volume 10, Issue 2.

With gratitude,

Mary M. Fink, Managing Editor
Journal of Aviation Technology and Engineering