

Editorial

As we introduce Volume 10, Issue 2 of *Journal of Aviation Technology and Engineering* (JATE), I would like to take this opportunity to introduce myself, Joseph Hupy, as JATE Executive Editor. Over the past two decades, I have specialized in geospatial data collection methods and equipment. In 2011, I began work in the field of unmanned aerial systems (UAS) as a means to map out areas impacted by explosive munitions in conflict. What began as using a tool to engage in research has now led to a new chapter in my research and teaching career. I currently serve as an Associate Professor for Purdue's School of Aviation and Transportation Technology and am committed to the development of this preeminent UAS program. I acknowledge that, as I take on this role with JATE, the world continues to reel from the effects of the lingering COVID-19 pandemic. It has truly impacted every facet of the industry.

That being said, Volume 10, Issue 2 of JATE contains five articles that have been selected for publication following a rigorous double-blind peer review process.

We begin with *Female Relief Systems in U.S. Military Fighter Ejection Seat Aircraft* by Marian Schultz, James Schultz, and Joshua Schultz. This research addresses technological advances in urine waste management for females piloting single-seat ejection-seat aircraft. Collection methods for both males and females are discussed. Also addressed is the possibility for slowing urine production in the body.

Next is a research collaboration between Cheng Wang of Minnesota State University and Sarah Hubbard of Purdue University. *Characteristics of Unmanned Aircraft System (UAS) Sightings and Airport Safety* utilizes airport operational data to evaluate airport safety and the Federal Aviation Administration's UAS Sightings Report to analyze the time of year and time of day sightings take place. The research found that general aviation pilots reported more UAS sightings. The authors also discuss the states and airports with the greatest number of UAS sightings.

Eye-Gaze-Controlled HMDS and MFD for Military Aircraft is a research collaboration of scholars from India and the United Kingdom. This research is an analysis of accuracy of eye-gaze-controlled interfaces of aircraft that conduct representative flying missions. Limitations of existing technology are discussed. The authors also developed eye-gaze trackers for both head-mounted display systems and multifunctional displays.

A duo of researchers in Australia follow with *Benchmarking Global Carrier Status in the Airline Industry*. The authors assess the components which qualify as a major global carrier. Three metrics were used to gauge the global impact of an airline and its major global carrier status and rank. The paper provides a ranking based upon data from the Centre for Aviation (CAPA) airline database.

Volume 10, Issue 2 concludes with *Qualitative Findings from the Practice of Outsourcing by the Aviation Technical Service Industry in Northern Europe—Comparison with Literature*. Author Jukka Holkeri of Aalto University explores the trend of outsourcing maintenance and other services for both civil and military aviation. The Delphi method was utilized to analyze six cases. Future research in this area was also recommended.

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