

Editorial

Thank you for your interest in the *Journal of Aviation Technology and Engineering* (JATE). This volume marks the beginning of our seventh year of publication. In that short span of time, there have been over 88,000 full-text downloads of JATE articles. The open-access nature of JATE yields a global audience engaged in the results of evidence-based research. The global impact factor of JATE may be viewed by utilizing our real-time readership map. The founders of JATE emphasized the importance of free access to refereed articles in the fields of aviation technology, engineering, and human factors. We remain committed to this standard and hope that you enjoy the six peer-reviewed manuscripts contained in this edition.

JATE Volume 7, Issue 1 commences with “VFR-into-IMC: An Analysis of Two Training Protocols on Weather-Related Posttest Scores,” by a group of five authors from Purdue University. This research analyzes a decade of accident data comparing two training protocols and weather-related posttest scores.

An international collaborative effort between Eduardo Francis Carvalho Freitas of Brazil and Nihad Daidzic of the United States follows. “Design of DC-Link VSCF AC Electrical Power System for the Embraer 190/195 Aircraft” lays the foundation for a new potential converter that could replace the conventional system. The transient behavior of the VSCF system was simulated by using multiple critical scenarios of the Embraer 190/195.

In “Assessing the Benefits of Performance-Based Navigation Procedures,” Embry-Riddle Aeronautical University’s Kabir Kasim presents research findings from both a literature review and review of data from the Aviation Safety Reporting System database pertaining to performance-based navigation. This analysis determined that significantly fewer event anomalies took place when performance-based navigation procedures were used.

Another safety-related article follows. “VFR-into-IMC Accident Trends: Perceptions of Deficiencies in Training” is the result of a collaborative research effort of 11 authors from Purdue, Kent State, and Western Michigan Universities and the Altarum Institute. This study utilizes a mixed methods approach to identify causal factors as well as omissions in training that lead to such general aviation accidents.

Safety culture in Australian collegiate flight training is studied in “Safety Climate of Ab-Initio Flying Training Organizations: The Case of an Australian Tertiary (Collegiate) Aviation Program.” Authors Yi Gao and Natalia Rajendran of Swinburne University of Technology identified four safety themes: Safety Reporting Culture, Safety Reporting Procedure, Organizational Culture and Practice, and General Safety Knowledge. Results of this survey revealed differences in student attitudes by academic year.

This issue concludes with an examination of the “Advantages and Disadvantages of Using Internet-Based Survey Methods in Aviation-Related Research.” A group of researchers from Embry-Riddle Aeronautical University discusses the advantages and disadvantages of using online populations to conduct research in the aviation industry.

JATE continuously seeks professionals willing to share their expertise by serving as reviewers. Please contact us if you wish to apply. Additionally, if you wish to receive custom email notices, enable the *Journal of Aviation Technology and Engineering* RSS feed, or submit an article for publication consideration, please visit <http://docs.lib.purdue.edu/jate/>.

On behalf of JATE’s associate editors and members of the editorial board, we thank you for your readership.

Best regards,

John H. Mott, Executive Editor

Mary M. Fink, Managing Editor

Journal of Aviation Technology and Engineering