

## Editorial

Welcome to the *Journal of Aviation Technology and Engineering* (JATE), Volume 11, Number 1. For over a decade, the JATE has grown and become a premier worldwide open-access peer-reviewed research journal spanning fields of qualitative and quantitative research pertaining to aviation and engineering.

This edition, Volume 11, Issue 1, of the JATE contains four articles which have all undergone an intensive double-blind peer-review process prior to publication.

This issue begins with research from a team of researchers at Embry-Riddle Aeronautical University. *Assessing Unstabilized Approaches: A Phenomenology Study of the Risk Perceptions and Decision-Making Thought Process of Collegiate Aviation Pilots* responds to the Federal Aviation Administration's Human Factors Policy Order 9550.8 in an effort to improve safety. This study is a qualitative phenomenological analysis of risk perceptions and decision making of collegiate aviation pilots. A questionnaire and interview were administered to 15 pilots in an effort to understand how they perceive unstable approaches, risks associated with them, and factors which would result in the execution of a go-around. While three major themes emerged, the recommendation for additional research was made so that stabilization criteria may be adopted by the general aviation community.

Next, Douglas Boyd and Mark Scharf, also of Embry-Riddle Aeronautical University, build upon previous research regarding general aviation safety as compared to that of air carriers. *Adherence to Selected Air Carrier (Airline) Operational Regulations for Improved General Aviation Flight Safety in Degraded Visibility* utilizes Poisson distributions of statistical data from the National Transportation Safety Board and Bureau of Transportation Statistics. The authors conclude that alignment with air carrier operational rules may impact by 20% the accident rate of general aviation pilots operating in instrument meteorological conditions.

Researchers from Flensburg University of Applied Sciences, Germany, follow with a study entitled *Model-Based Development of Multirotor UAV Power Profiles for Performance Investigation of Different Flight Missions*. The team developed a model for assessment of three flight missions of multirotor unmanned aerial vehicles based upon power profiles. The intent of this research is "to identify future technical research priorities and possible improvements in operational management." Potential energy savings are identified.

The issue concludes with a collaborative effort among researchers from the University of North Texas and Hanseo University. *Organizational Safety Culture in Pilot Training Schools: Case of North Texas in the USA and South Korea* addresses the shortage of qualified pilots and the potential safety risks associated with this deficiency. Safety culture is examined, and a conceptual framework is developed while comparing sub-safety culture and safety culture in the training environment at pilot training schools. Data collected from the survey developed by the researchers were assessed. Cultural diversity, human factors, and safety culture are all addressed.

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