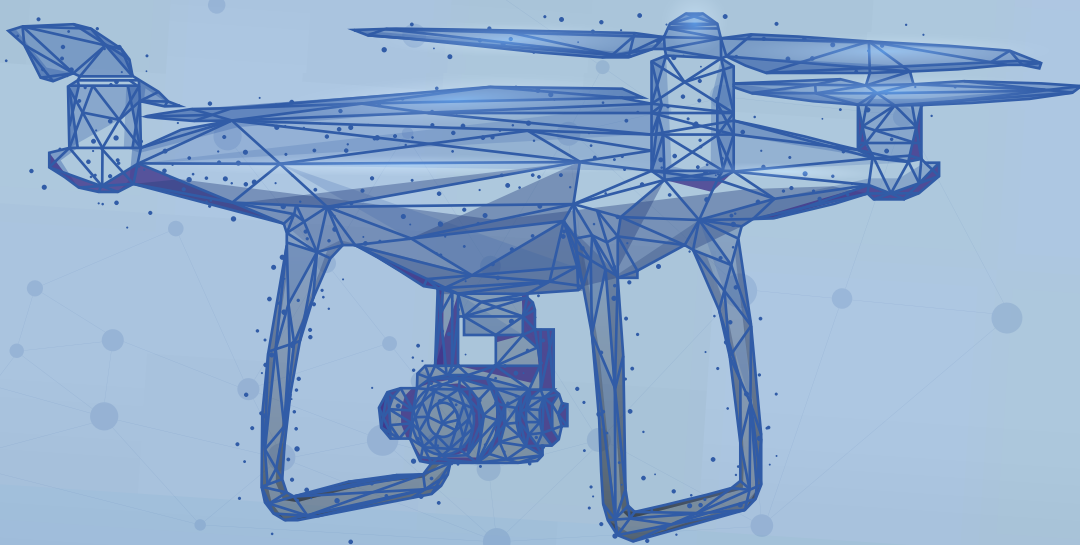




International  
**Journal of Aviation**  
Science and Technology

*Volume 2, Issue 2, December 2021*



e-ISSN: 2687-525X



[www.sares.org](http://www.sares.org)



# International Journal of Aviation Science and Technology



## Editor in Chief

Prof. Dr. T. Hikmet Karakoç

Institution: Eskisehir Technical University, Turkey

[hkarakoc@eskisehir.edu.tr](mailto:hkarakoc@eskisehir.edu.tr)

## Co-Editors

Assoc. Prof. Dr. Patti Clark

Institution: Embry-Riddle University, USA

[patti.clark@erau.edu](mailto:patti.clark@erau.edu)

Dr. Alper Dalkiran

Institution: Suleyman Demirel University, Turkey

[alperdalkiran@sdu.edu.tr](mailto:alperdalkiran@sdu.edu.tr)

Assoc. Prof. Dr. Kyriakos I. Kourousis

Institution: University of Limerick, Ireland

[kyriakos.kourousis@ul.ie](mailto:kyriakos.kourousis@ul.ie)

Prof. Dr. Nadir Yilmaz

Institution: Howard University, Washington, USA

[nadir.yilmaz@howard.edu](mailto:nadir.yilmaz@howard.edu)

## Editorial Board

Prof. Dr. Ramesh K. Agarwal

Institution: Washington University, USA

[rka@wustl.edu](mailto:rka@wustl.edu)

Prof. Dr. Pouria Ahmedi

Institution: University of Illinois, USA

[pouryaahmadi81@gmail.com](mailto:pouryaahmadi81@gmail.com)

Prof. Dr. Elbrus Caferov

Institution: Istanbul Technical University, Turkey

[chemmotology@ukr.net](mailto:chemmotology@ukr.net)

Prof. Dr. Raj Das

Aerospace Eng. and Aviation, RMIT University, Melbourne, Australia

[raj.das@rmit.edu.au](mailto:raj.das@rmit.edu.au)

Prof. Dr. Marina Efthymiou

Institution: Dublin City University, Ireland

[marina.efthymiou@dcu.ie](mailto:marina.efthymiou@dcu.ie)

Prof. Dr. Vincenzo Fasone

Institution: Universita Kore di Enna, Italy

[marina.efthymiou@dcu.ie](mailto:marina.efthymiou@dcu.ie)

Prof. Dr. Chingiz Hajiyev

Institution: Istanbul Technical University, Turkey

[cingiz@itu.edu.tr](mailto:cingiz@itu.edu.tr)

Prof. Dr. Soledad Le Clainche Martinez

Universidad Politécnic de Madrid, Spain

[soledad.leclainche@upm.es](mailto:soledad.leclainche@upm.es)

Prof. Dr. Mohammad Mehdi Rashidi

Institution: Shanghai Lab of Vehicle Aerodynamics, China

[mm\\_rashidi@yahoo.com](mailto:mm_rashidi@yahoo.com)

Prof. Dr. Daniel Rohacs

Institution: University of Technology & Economics, Hungary

[e\\_somov@mail.ru](mailto:e_somov@mail.ru)

Prof. Dr. Kateryna Synylo

Institution: National Aviation University, Ukraine

[e\\_somov@mail.ru](mailto:e_somov@mail.ru)

Prof. Dr. David Sziroczak

Institution: University of Technology & Economics, Hungary

[e\\_somov@mail.ru](mailto:e_somov@mail.ru)

Prof. Dr. John Kian Tan

Institution: Northumbria University, Newcastle, UK

[e\\_somov@mail.ru](mailto:e_somov@mail.ru)

Prof. Dr. Nadir Yilmaz

Institution: Howard University, Washington, USA

[e\\_somov@mail.ru](mailto:e_somov@mail.ru)

Prof. Dr. Oleksander Zaporozhets

Institution: National Aviation University, Ukraine

[zap@nau.edu.ua](mailto:zap@nau.edu.ua)

Publisher : SARES  
International Sustainable Aviation and Energy Research Society  
Licence holder : Prof. Dr. T. Hikmet Karakoç (President, SARES)  
Address : Anadolu University TGBD TechnoPark Region No:210  
26470 Eskisehir/Turkey

e-ISSN : 2687-525X  
DOI : [10.23890/IJAST](https://doi.org/10.23890/IJAST)  
web : [www.ijast.org](http://www.ijast.org)  
submission : [DergiPark-IJAST](http://DergiPark-IJAST)  
e-mail : [ijast@sares.org](mailto:ijast@sares.org)  
Copyright : SARES Society

IJAST is published with the contribution of "Research and Application Center of Civil Aviation, Eskisehir Technical University"



## Index

	<b>Title</b>	<b>Start Page</b>	<b>Finish Page</b>
6	Accuracy in Determining Aircraft Position by Terrestrial Radio Navigation <a href="#">Chingiz Hajiev, Alper Mehdi Sametoglu</a>	49	56
7	Identification and Stochastic Optimizing the UAV Motion Control in Turbulent Atmosphere <a href="#">Yevgeny Somov, Nikolay Rodnishchev, Tatyana Somova</a>	57	63
8	Monitoring System of Vibroacoustic Parameters of a Working Zone <a href="#">Stakhova Anzhelika</a>	64	72
9	Aerospace Industry and Aluminum Metal Matrix Composites <a href="#">Sevim Yolcular Karaoglu, Serdar Karaoglu, Imgesu Unal</a>	73	81
10	Ergonomic Risk Factors in Ground Handling Operations to Improve Corporate Performance <a href="#">Vildan Durmaz, Ebru Yazgan, Ayse Kucuk Yilmaz</a>	82	90