Call for Papers
IEEE Aerospace and Electronic Systems Magazine

Special Issue on
Current Applications and Innovations of Artificial Intelligence and Machine Learning in Aerospace

Dear Artificial Intelligence and Machine Learning in Aerospace Community,

The IEEE Aerospace and Electronic Systems (AESS) will publish a **special issue** of its magazine on **Current Applications and Innovations of Artificial Intelligence and Machine Learning in Aerospace**, focusing on developments of Artificial Intelligence (AI) aerospace industry in recent years. Artificial intelligence plays a significant role in cutting costs, reducing the design cycle time, simulation, prototyping, optimization, maintenance, manufacturing and updating products and is all set to drive many developments in the aerospace sector. Advances in AI could help aerospace companies optimize their manufacturing processes. However, there is limited adoption of machine learning techniques in the aviation industry and the main reason for this is the lack of access to high-quality data, increased dependability on simple models as compared to complex models and a lack of skilled workforce and partners to implement it effectively. This special issue will address many topics related to the use of AI in the aerospace ecosystem including (but not limited to):

- Predictive Maintenance
- Generative design
- Efficient supply chain management
- Improved quality control
- Smart Concessions Management.
- Smart Repairs Management.
- Automatic Part Geo Location.
- Identification in a DMU or Assembly Line.
- NC Documentation Device.
- Knowledge-Based Engineering.
- Reverse Engineering.
- Flight Safety
- Threat detection
- Horizon Detection
- Autonomous Drones
- Autonomous Helicopters
- Autonomous Aerospace Vehicles

The IEEE AESS Magazine enjoys a wide circulation and readership and is printed in colour. We are aware of your work in the field of Artificial Intelligence and Machine Learning in Aerospace and invite you and your colleagues to contribute a paper to the special issue.

As a guideline time schedule, we invite you to submit your contribution by the **15 November 2020**. The peer-review process will take approximately three months. Authors will be provided notification

and feedback by 30 January 2021. Authors should submit revised papers by 28 February 2021, following refining and or correction of their manuscripts based on the feedback from the reviewers. The contributions will then be reviewed again. Final comments will be delivered to the authors by 30 March 2021 and the final versions of the papers should be submitted by 30 April 2021.

You should expect to see **your paper published** in the **last quarter of 2021**:

	Manuscript submission deadline:	**15 November 2020**
·	First review completed:	30 January 2021
·	Revised manuscript due:	28 February 2021
·	Second review completed:	30 March 2021
·	Final manuscript due:	30 April 2021

We strongly encourage you to submit a paper of your recent work; submission is at http://sysaes.msubmit.net. We provide a link to author instructions:

http://sysaes.msubmit.net/cgi-bin/main.plex?form_type=do_cat&file_nm=info.htm

While this is not required, if you intend to submit a paper, please reply with a **title** by **30 August 2020** to:

Special Guest Editors
- Ruay-Shiung Chang
- Sabah Mohammed
- Carlos Ramos
- Tai-hoon Kim (taihoonn@daum.net)