

TRANSACTIONS OF NANJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS

CALL FOR PAPERS

Intelligent Aerospace Communications and Navigation

Transactions of Nanjing University of Aeronautics and Astronautics(TNUAA), intends to present a special column on intelligent aerospace communications and navigation in **Issue 2, 2022** to be published in **April 30th, 2022**. The aim of this special column is to reflect recent advancements and future interest in the field of artificial intelligence and machine learning with applications toward the development of communication systems for aerospace, as well as edging-cut progress on navigation systems.

Topics: This column welcomes submission of papers related to intelligent aerospace communications and navigation systems, including, but not limited to, the following topics:

- Artificial intelligent methods for communications between spacecraft
- Satellites organizations for next-generation navigation systems
- Novel theories, architectures, technologies and applications for telemetry, tracking, and command systems
- Space intelligent networks
- Deep space networks
- Novel space segment architectures for next generation PNT
- Orbit prediction and state uncertainty models
- Close proximity manoeuvring and docking operations
- Flight management: autonomous station keeping and AI
- Space traffic management and mega-constellations
- Collision avoidance in low earth orbit

Guest Editors

Prof. Kanglian Zhao: Professor with the School of Electronic Science and Engineering and the Institute of Space-Terrestrial Intelligent Networks, Nanjing University. His current research interests include space internetworking, emulation and modeling of space networks, satellite and terrestrial integrated mobile communications.

Dr. Chengbin Kang: Senior Researcher with China Academy of Space Technology. He works as the Deputy Chief Engineer responsible for the design of BeiDou-3 Navigation Satellite System. His current research interests focus on navigation systems.

Important Dates

Submission deadline: **March 15th, 2022**

Paper acceptance notification: **April 20th, 2022**

Publication date: **April 30th, 2022**

Submission Information

Submission website: <http://tnuaa.nuaa.edu.cn>. Please read "Prepare for Submission" under the guideline of "Authors" before submit your paper.

Executive Editor : Bei Zhang, 025-84892071, zhangbeitnuaa@nuaa.edu.cn

Huangqun Zhang, 025-84892742, zhq623@nuaa.edu.cn