

Special Issue on “Non-Destructive Testing and Structural Health Monitoring in Aerospace 2018”

Non-Destructive Testing and Evaluation (NDT&E) is one of the major requirements in aerospace structural design and plays an important role in operation and maintenance of aerospace structures. Almost all the components have to pass through various NDT quality assurance procedures. For damage tolerance design used in aviation, NDT is a prerequisite. Appropriate use of NDT guarantees safety in aerospace and is thus a subject of highest attention. Although aerospace industries have to clearly stick to certified NDT procedures, there is a large amount of technology being currently developed within the engineering science discipline, which is worth a discussion with respect to their potential application. Meanwhile, Structural Health Monitoring (SHM) has become a key technology to aerospace structures, dealing with the development and implementation of techniques and systems where monitoring, inspection and damage detection become an integral part of structures. It further merges with a variety of techniques related to diagnostics and prognostics.

To consolidate the latest findings of research regarding NDT & SHM and promote understanding and cooperation in the aerospace industry, Transactions of Nanjing University of Aeronautics & Astronautics (TNUAA) intends to present a “Special Issue on NDT & SHM in aerospace”. The special issue is so honored to invite Prof. Lei Qiu from Nanjing University of Aeronautics and Astronautics and Prof. Zhiwei Zeng from Xiamen University as the guest editors. Best quality papers that are prudently and deliberately selected from “the 9th International Symposium on NDT in aerospace”, successfully held in 7th—10th Nov. 2017, Xiamen, China, will constitute the majority of the special issue.

TNUAA is devoted to the dissemination of original archival research papers on theoretical developments, novel applications and case studies regarding pressing issues in aeronautics, astronautics, and civil aviation. As a peer-reviewed journal published bimonthly, TNUAA has been indexed by the predominant databases such as Ei Compendex (USA), Scopus (Holland), Chinese Science Citation Database (CSCD), Mathematical Review (USA), Cambridge Scientific Abstracts (CSA), SA (England), Zbl (Germany), etc.

Topics

The topics of TNUAA “Special Issue on NDT & SHM in aerospace 2018” include, but are not limited to, the following:

- Sensors and actuators
- System design and integration
- Single processing and methods
- Prognostics and health management
- Integrity and safety assurance

- Modeling and simulations
- Mobile/autonomous NDT and monitoring
- Implementation, validation and certification
- Damage tolerance and aircraft aging

Important Dates

Full paper due for review: January 15th, 2018

Notification of results of first review cycle: February 28th, 2018

Revised paper submission due for Editor Board Meeting: March 15th, 2018

Final notification of results of Editor Board Meeting: March 20th, 2018

Publication in print due: April 30th, 2018

Submission Instructions

We welcome paper submissions between 6 and 10 pages, written in English. Paper submissions must not have been previously published. A paper is considered to have been previously published if it has appeared in a peer-reviewed journal, magazine, book, or meeting proceedings that is reliably and permanently available afterward in print or electronic form to non-attendees, regardless of the language of that publication. Complete papers should be submitted electronically or by E-mail (tnuaa@nuaa.edu.cn) and be entitled "Contribution to Special Issue on NDT 2018".

Both Research Articles and Reviews are welcome. For the instructions on preparing a manuscript and the required style and format, see the author guidelines on the TNUAA website. TNUAA pursues a double-blind peer review policy, meaning both the authors and the reviewers remain anonymous to each other. Submissions (including citations) should not contain information that unnecessarily identifies the authors and their affiliations. For questions, please contact Guest Editor Prof. Lei Qiu, Prof. Zhiwei Zeng and Executive Editor Ms. Bei Zhang. Please notify Prof. Qiu, Prof. Zeng, and Ms. Zhang when submitting the manuscript. For anyone who already has a paper under review and wishes to have it considered for this special issue, please send the request to Guest Editors Prof. Qiu, Prof. Zeng and copy the request to Executive Editor Ms. Zhang.

Contact

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Editorial Office of TNUAA

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