



AIDA-AT 2020 Conference, Nanyang Technological University, Singapore

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The air transportation system is complex, multi-dimensional, highly distributed and interdependent. It interacts with global and regional economies and has reached its operational limits in many ways. The growth of traffic, uncertainties related to weather conditions and increasing safety requirements are challenging the robustness and efficiency of the system and opens new research questions.

Artificial Intelligence (AI) and Data Analytics (DA) techniques, such as machine learning, multi-agent systems, evolutionary computation, swarm intelligence, neural networks, predictive analytics, etc., have demonstrated potential to address complex problems in Air Transportation to which traditional methodologies were ineffective or infeasible. New research findings and better insights in to “how machines can learn” and “how machines can perform higher order cognitive tasks”, can make these techniques a very powerful tool to manage and sustain air traffic growth.

The 1st conference on Artificial Intelligence and Data Analytics in Air Transportation (AIDA-AT 2020) will provide an excellent interdisciplinary forum for researchers to present and discuss latest advances in research work and applications of Artificial Intelligence and Data Analytics in the field of Air Transportation.

The aim of the conference is to bring together world leading experts in Artificial Intelligence and Air Transportation on one platform to promote a fruitful research on well-described Air Transportation problems, using and developing techniques from Artificial Intelligence and Data Science, such as Machine Learning, Evolutionary Computation, Constraint Programming, Graph-based methods, Data-driven methods, Data Analytics, etc.

As researchers in these fields are not necessarily familiar with Air Transportation domain, paper submissions should provide a clear description of the problem being addressed and offer access to the problem data in a format that is easy to understand for non-specialists in ATM. The models and algorithms should be detailed and the results should be reproducible. When possible, an open access to the code that was used to obtain the results would be highly appreciated.

The conference will be held in the Nanyang Executive Center, Nanyang Technological University, Singapore, on 3rd-4th February 2020.

AIDA-AT 2020 is organized by **Air Traffic Management Research Institute (ATMRI)**, **School of Mechanical and Aerospace Engineering, NTU**, and technically sponsored by **IEEE Computational Intelligence Society (CIS)**. All submissions will be peer-reviewed, by at-least three reviewers, from the [program committee](#). All accepted papers and presented papers will be published in the conference proceedings and indexed by *IEEE Xplore Digital Library* and *Scopus*.

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