Special Issue

Machine Learning for Aeronautics (2nd Edition)

Message from the Guest Editors

From enhancing aircraft design and manufacturing to enabling virtual testing, accelerating the certification of novel concepts, optimizing flight and maintenance operations, revolutionizing air traffic management, and improving aviation safety, the integration of machine learning offers unparalleled opportunities for innovation. This Special Issue aims to showcase the latest research, case studies, and innovative ML techniques that are pushing the boundaries of what is possible in aeronautics. We invite contributions from researchers, engineers, and practitioners who are working at the intersection of machine learning and aerospace technology. Whether through the development of advanced algorithms for flight control, the application of predictive maintenance for aircraft systems, or the use of machine learning to improve aerodynamic designs, your work is contributing to the smarter, safer, and more efficient operation of aircraft and air transport systems.

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