

Special Issue

Research and Development of Supersonic Aircraft

Message from the Guest Editors

Boom Supersonic's Overture supersonic transport (SST) has been developed with the investment of Japan Airlines (JAL), which has acquired preferential ordering rights for 20 aircraft. Airlines, including United Airlines, American Airlines, and JAL, plan to purchase over 100 Overture aircraft. Overture is expected to connect Tokyo and Seattle with a transit time of fewer than six hours, which is approximately half the time required by current passenger aircraft. The realization of Overture is highly significant because it is the first commercial SST since Concorde. Various studies are being performed globally to develop the next generation of Overture. Improving fuel economy through highly efficient airframe designs and engine integration is currently the most significant issue in SST research. Sonic boom mitigation is also a unique challenge. This Special Issue, "The R&D of Supersonic Aircraft," invites submissions concerning the research and development of next-generation SST from the viewpoint of aerodynamics, including sonic boom mitigation, structural and flight dynamics, and other novel concepts.

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