Special Issue

Design and Analysis of Wind-Tunnel Models and Fluidic Measurements

Message from the Guest Editors

Wind tunnel testing has always played a key role in the design, testing, and optimization of fluidic components ranging from aircraft wings to compressor blades, from understanding nature-inspired bird flight to hypersonic reentry of manned vehicle returning from off-planetary missions. Today, wind tunnel testing continues to have a critical role in numerous sectors of society: Aerospace, automotive, renewable energies, etc. With the advent of higher computing power, wind tunnels and wind tunnel testing were at the brink of abandonment. However, as our knowledge and understanding of fluidic phenomena grew, we realized that flow interactions and phenomena are even more complex than once thought and that a synergetic numerical and experimental approach is key to unlocking the fundamental physics.

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