Special Issue

Bioinspired Solutions for Flight

Message from the Guest Editor

Within aerospace engineering, bio-inspired solutions have been explored in all pillars of flight encompassing aerodynamics, propulsion, structures, and dynamics/control. The development of micro air vehicles (MAVs) has also facilitated progress in this area, given their size and weight similarities to avian species in nature. It is worth noting that bio-inspired solutions extend beyond achieving lift and thrust. They also cover a range of flight-related challenges, including the development of morphing winglets for improved flight efficiency, neural networks for nonlinear flight control, and obstacle avoidance, as well as creating structures for better energy absorption in collisions. While much work remains to be done to bring these technologies to the mainstream, the scientific community must continue to push the limits and demonstrate that bio-inspired solutions are on par with, if not superior to, conventional solutions. This Special Issue is dedicated to exploring bio-inspired solutions for flight across all pillars of aerospace engineering. It aims to gather knowledge and insights from experts in the field, fostering progress towards more sustainable and efficient solutions.

Guest Editor

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