



## Bionic Unmanned Aircraft Systems

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Deadline for manuscript  
submissions:

**closed (20 June 2023)**

### Message from the Guest Editors

Dear Colleagues,

Bionic Unmanned Aerial Systems (BUASs) have the potential to develop into useful tools to assist humans accomplish various aims, such as monitoring, surveillance, search, rescue, and, especially, covert reconnaissance via bionic appearance. In recent years, the improvement of Computational Fluid Dynamics (CFD) technology, micro-electromechanical technology, SoC (System-on-a-Chip) technology and batteries have greatly promoted the development of bionic aircrafts, making the applicational capability of bionic aircrafts more and more practical. Nevertheless, some challenges and open issues remain to ensure the full operational use of BUASs.

This Special Issue aims to present recent advances in technologies and algorithms to improve the levels of efficiency, autonomy, reliability, and safety of BUASs. Topics of interest include but are not limited to: aerodynamic computation and analysis of BUASs; design of biomimetic mechanism and actuators; advanced guidance, navigation, and control algorithms; networked swarms; new vehicle concepts and designs; new applications and field experiments.





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## Message from the Editor-in-Chief

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