Special Issue

Hydrodynamics of Swimming

Message from the Guest Editors

For a long time, the study of the hydrodynamics of swimming animals has been limited by our ability to quantify and calculate essential body–fluid interactions around propulsive elements and, as a result, has largely been dependent on a few critical models to predict thrust on the basis of trailing wakes. Relatively recent advances have enabled researchers to quantify and predict flow adjacent to important propulsive elements and to calculate variables, such as pressure, that reveal how animals manipulate hydrodynamics for effective, efficient swimming. This Special Issue of *Fluids* is dedicated to recent advances using experimental observations or computational techniques that are contributing to a new and more in-depth understanding of the hydrodynamics of swimming animals.

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