CFD ANALYSIS OF FLOW AROUND FISH
SWIMMING NEAR OR THROUGH WATER SURFACE

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This study focuses on the flow around a fish swimming near or through the water surface and aims at discussion on the motion from the viewpoint of fluid dynamics. The authors use the level set method for capturing interface between liquid (water), gas (air) and solid (fish) on the Cartesian grid. The ghost fluid method is used to impose the boundary condition at the solid surface. The drag and the vorticity are computed when the fish swims underwater and jumps through the water surface. The authors discuss about the computational results.

REFERENCES