

## **Dr. Liushuai Cao**

Dr. Liushuai Cao is a research associate at CMHL (Computational Marine Hydrodynamics Laboratory), where he leads a research field in submarine hydrodynamics. He achieved his BSc degree in Naval Architecture and Ocean Engineering from Harbin Engineering University in 2010 and his PhD degree from Naval Engineering University in 2015. After that, he served as an engineer in the navy for four years. His research focuses on the development of numerical methods for practical applications in the marine industry, such as propulsion and maneuvering performance prediction of submarines and underwater vehicles in the homogenous and density stratified fluid, cavitation simulation and suppression based on the active and passive methods.



### **Keynote Presentation 7**

#### **Free Surface Characteristics of a Generic Submarine in Density Stratified Fluid**

Dr. Liushuai Cao is a research associate at CMHL (Computational Marine Hydrodynamics Laboratory), where he leads a research field in submarine hydrodynamics. He achieved his BSc degree in Naval Architecture and Ocean Engineering from Harbin Engineering University in 2010 and his PhD degree from Naval Engineering University in 2015. After that, he served as an engineer in the navy for four years. His research focuses on the development of numerical methods for practical applications in the marine industry, such as propulsion and maneuvering performance prediction of submarines and underwater vehicles in the homogenous and density stratified fluid, cavitation simulation and suppression based on the active and passive methods.