## **Minisymposium Title**

Computational Fluid Dynamics for Engineering Applications

## Description

With the increment of the computing performance, the use of Computational Fluid Dynamics (CFD) to be beneficial to product design and analysis to industries has been widely recognized. However, applying CFD on the engineering applications always encounters difficulties such as the requirement of turnaround time, extremely complex geometries, multiscale phenomena...etc. In order to solve these divergent problems, the development of state-of-the-art methods is always highly demanded, for example, parallel computing for reducing calculation time, immersed boundary for treating CAD data, turbulence models for saving computational resource, applying higher order scheme to obtain more accurate results. Therefore, the aim of this minisymposium is to discuss the challenges and solutions of applying CFD for engineering applications.

## Lead Organizer:

Dr. ChungGang Li, Department of Computational Science, Kobe University, Japan Email: cgli@aquamarine.kobe-u.ac.jp

## **Co-organizers:**

Dr. WeiHsiang Wang, Complex Phenomena Unified Simulation Research Team, RIKEN AICS, Japan Email: wei-hsiang.wang@riken.jp