

Preface

The main idea of the ICCHMT conference is to disseminate the knowledge of computational methods applied for fluid flow, heat and mass transfer.

ICCHMT is well-established and supported by leading scientists from around the world. Computational methods applied almost all aspects of our life, academia, and industry. With advanced computing power, the computational methods helped us simulate from nano to mega scales. Simulation of single component reached maturity level. However, turbulent flows, multi-phase, and multi-components flows and transports need more effort. In the late 1980's Lattice Boltzmann method emerged as an alternative method for the conventional (finite-difference; finite element; finite volume) methods. Also, all aspects of machine learning and big data depend on statistical and physical modeling algorithms and computational powers. The last era was based on continuum mechanics. The current era is base on statistical and discrete mechanics. Most probably, the coming era will be based on quantum mechanics.

ICCHM2021 Organizing Committee