

## Prof. John Chai

**Title of the Talk:** Level-Set Method For Multiphase Flows

**John Chai** is currently a Professor at the University of Huddersfield, UK. He is an Editorial Board member of Computational Thermal Sciences, Associate Editor of the ASME Journal of Thermal Science and Engineering and Heat Transfer Engineering. He is an elected Fellow of ASME (American Society of Mechanical Engineers). Prior to UK, he held faculty positions in United Arab Emirates (UAE), Singapore and Tennessee, USA.

He received his B.S. (with First-Class Honors) in Mechanical Engineering from the University of Windsor, Canada and his M.S. in Mechanical Engineering from the University of Wisconsin-Milwaukee. In 1994 he graduated from the University of Minnesota with a Ph.D. in Mechanical Engineering where he worked under the supervision of Prof. Suhas V. Patankar.



He has published over 90 journal articles, over 100 conference articles and contributed a chapter to the second edition of the Handbook of Numerical Heat Transfer. According to Google Scholar, his works have been cited over 4000 times and his H-index is 28. He has worked on over US\$5M in funded research projects in USA, Singapore and UAE.

His research interests are in the development of numerical techniques for complex multiphysics transport phenomena encountered in multi-phase flows and fluid-structure interactions. Applications include, but are not limited to, digital (droplet-based) microfluidics, wet chemical etching, renewable energy, asphaltene (cholesterol) depositions and numerical methods for oil and gas industry.