

Biography

G.R. Liu

Dr Liu received his PhD from Tohoku University, Japan, in 1991. He was a Postdoctoral Fellow at Northwestern University, USA. He was a Professor at the Department of Mechanical Engineering, National University of Singapore. He founded the Centre for Advanced Computations in Engineering Science (ACES), National University of Singapore, and served as the Director of the ACES from 1998 to 2010. He founded the Association for Computational Mechanics (Singapore) (SACM) and served as the President of the SACM from 2002 to 2010. He is an executive council member of the International Association for Computational Mechanics, and the President of the Asia-Pacific Association for Computational Mechanics (APACM). He is currently a Professor, School Faculty Chair and Ohio Eminent Scholar at the School of Aerospace Systems, University of Cincinnati, USA. He has provided consultation services to many national and international organizations. He has authored more than 500 technical publications including more than 380 international journal papers and eight books, including two bestsellers: “Meshfree Methods: Moving Beyond the Finite Element Method” and “Smoothed Particle Hydrodynamics: A Meshfree Particle Method.” He is the Editor-in-Chief of the *International Journal of Computational Methods*, Associate Editor of *Inverse Problems in Science and Engineering*, and has served as an editorial member of five other journals including the IJNME. He is the recipient of the Outstanding University Researchers Awards, the Defence Technology Prize (National award), Silver Award at the CrayQuest competition, the Excellent Teachers Awards, the Engineering Educator Awards, the APACM Award for Computational Mechanics, the JSME Award for Computational Mechanics, and the ASME Ted Belytschko Award of Applied Mechanics. His research interests include aerospace systems, bio-mechanical systems, computational mechanics, mesh free methods, nano-scale computation, micro-biosystem computation, vibration and wave propagation in composites, mechanics of composites and smart materials, inverse problems and numerical analysis.



S.S. Quek

Dr Quek received his PhD from the National University of Singapore. He joined the Institute of High Performance Computing (IHPC) under the Agency for Science, Technology, and Research (A*STAR), Singapore, and participated in the prestigious Visiting Investigator Program led by Professor David J. Srolovitz (currently at the University of Pennsylvania, USA). Through this program, Dr Quek established himself as a competent researcher in the field of computational mechanics and, in particular, computational modeling of dislocation plasticity. Dr Quek is currently a scientist at IHPC and also an Adjunct Assistant Professor at the Department of Mechanical Engineering,



National University of Singapore. He has authored several technical publications including a book chapter and prestigious international journal papers. His other research interests include microstructure effects on the mechanics of materials, thin film mechanics, dislocation dynamics, nano-scale mechanics, and microstructure evolution.