



Dr. Maosen Cao

Full professor in the Department of Engineering Mechanics at Hohai University, PRC.

His specific areas of interest relate to structural durability and integrity assessment, health monitoring, damage modeling and identification, disaster prevention and mitigation, and multiscale vibration and dynamics. He is currently director of the Institute of Engineering Vibration and Dynamic Disaster of the University; deputy dean of the Co-Innovation Centre of Safety and Health on Key Civil Infrastructures (involving 9 universities and institutes); dean of academic work committee of the Theoretical and Applied Mechanics Society of Jiangsu Province; principal of Outstanding S&T Innovation Team in Structural Integrity and Safety; standing director of the Chinese Society of Health Monitoring and Risk Warning of Equipment & Structure; member of ASCE, ASME, IEEE, and SPIE.

Dr Cao earned his PhD in 2005 from the College of Civil Engineering at Hohai University, also winning the National Doctoral Dissertation Award with 1 million CNY financial support for follow-up research. He conducted research into structural vibration and health monitoring for six years at Washington State University, the Hong Kong Polytechnic University, and the Polish Academy of Sciences (PAS). During 2012 through 2013, he conducted collaborative research with Prof. W. Ostachowicz in PAS, supported by the Marie Curie Fellowship for experienced researchers funded by the European Commission. He is the author/co-author of 150 papers in structural vibration analysis, health monitoring, integrity assessment, etc, including over 50 papers in top-tier international journals such as SHM, JSV, MSSP, SMS, IJSS, and APL, with high IF and citations. Four of his research outcomes appear in the form of innovation patents that bridge the gap between newly developed theories and methods and industrial technologies. He has successfully secured research grants in the capacity of principal investigator from various government agencies, e.g., 4 NSF projects from the National Science Foundation Committee in China, 12 International Cooperative Research Projects with leading experts from 15 countries and organizations, e.g., the U.S. and EU.

Dr Cao has contributed to a number of international conferences. He was the Chair of the 19th International Conference on Vibration Theories, Approaches and Technologies in Infrastructure Engineering, the Vice-Chair of Organization Committee of the 3rd International Conference on Structural Health Monitoring and Integrity Management, and the Technical Committee Chair of the 3rd Annual Conference of Mechanics and Mechanical Engineering. He has delivered over 40 plenary speeches, invited talks, and public seminars at international conferences and universities in various countries. He is currently a member of the Editorial Board of the *Journal of Vibroengineering*, *Vibroengineering Procedia*, and the *Journal of Measurement in Engineering*, and was the Guest Editor of *Complexity*, *Shock and Vibration*, etc. Research outcomes have brought significant honors and awards, typically the prestigious European-Chinese Dragon-STAR Innovation Award, funded by the European Commission; and two National Natural Science Awards of MOE in PRC.