



Alam Md. Mahbub

alamm28@yahoo.com

Alam Md. Mahbub is a professor at Harbin Institute of Technology (China) since 2012. He worked as a senior lecturer at the University of Pretoria (South Africa), research and postdoctoral fellows at the Hong Kong Polytechnic University, and lecturer at the Rajshahi University of Engineering and Technology (Bangladesh). More than 325 technical articles are authored and co-authored, including 155 SCI journal papers. Most of the papers have been published in the top-notched journals, including Journal of Fluid Mechanics, Journal of Fluids & Structures, Ocean Engineering, Physics of Fluids, and Journal of Sustainable and Energy Reviews. His papers are well cited, 3835 (h-index 35) in WoS database and 5895 (h-index 41) in google database. He has been listed as highly cited researcher for 2018 - 2021 (single year) by Web of Science, ranked top 2%. He has edited four special issues in 'Wind and Structures, an International Journal'. He has delivered 24 Keynote speeches at international conferences. His research has mostly involved flow-induced vibrations, flow-induced noise, turbulent wake behind bluff bodies, wind load on structures, fluid-structure interactions, hydrodynamics of swimming animals, flow control, and energy harvesting from wind and ocean current. Prof Alam has received a number of awards: Japan Government Scholarship (monbusho) for Masters and PhD studies; JSPS Postdoctoral fellowship; South Africa National Research Foundation (NRF) rating 'Promising Young Researcher, Y1'; China 1000-young-talent scholar; Shenzhen High-Level Overseas Talent; and 2015 Shenzhen Outstanding Teacher. He is an editorial board member of '*Wind and Structures, an International Journal*'.

Admission Requirements

1. Candidates are expected to have a Bachelor's degree with good CGPA (3.0/4.0 or above).
2. Candidates are expected to have degree in mechanical/civil engineering or closely related areas, e.g., aerospace, measurement & control, and energy & power.
3. Candidates are expected to have good English reading and writing abilities.
5. Candidates with published papers or innovation competition awards are prioritized.



Bernd Noack

bernd.noack@hit.edu.cn

Bernd R. Noack is full professor at Harbin Institute of Technology, Shenzhen, China since 2020. He is also honorary professor and Chair of “Turbulence Control” at the Technical University of Berlin. Before entering HIT, he was Director of Research at the French National Research Center (CNRS), LIMSIS (Paris-Saclay), Professor and Chair of “Flow Modeling and Control” at the Technical University of Braunschweig and Professor and Chair of “Reduced-Order Modeling for Flow Control” at the Technical University of Berlin. Earlier affiliations include the United Technologies Research Center (USA), the Max-Planck Society (Germany), the German Aerospace Center and the University of Goettingen (Germany).

He develops closed-loop turbulence control solutions for greener transport and energy in an interdisciplinary effort with leading groups in China, Europe, and USA/Canada. His team is advancing the frontiers of nonlinear control-oriented reduced-order models and artificial intelligence / machine learning control, an automated learning of control laws in the experiment. He has co-authored over 200 refereed publications, including 2 patents, 2 textbooks and over 100 journal articles. His work has been honored by numerous awards, e.g., a Fellowship of the American Physical Society for “pioneering contributions to turbulence control”, a CNRS Scientific Excellence award, a Senior ANR Chair of Excellence in France, and an annual von Mises Award of International Association of Applied Mathematics and Mechanics. His publications are highly cited: 17 have become citation classics and 2 articles received the ISI Thomson highly cited distinction.