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Bio

Youmin Zhang is a Professor with the Department of Mechanical, Industrial & Aerospace Engineering at Concordia University in Montreal, Canada. He is also a licensed Professional Engineer (P.Eng.) registered in Ontario. He received his Ph.D. degree from Northwestern Polytechnical University, China, in 1995. He has authored 8 books and more than 600 journal and conference papers. His research interests include condition monitoring, fault detection and diagnosis (FDD) and fault-tolerant control (FTC), cooperative guidance, navigation, and control (GNC) of single and multiple autonomous/unmanned vehicles, and advanced diagnosis, prognosis, and health management of safety-critical systems with applications to renewable energies, smart grids, and smart cities towards goal of electrification for resilient and decarbonized systems and communities. Dr. Zhang's research has drawn considerable attention in the field. His publications have received 24,577 citations at Google Scholar with an h-index of 74 and i10-index of 361, and 12,596 citations with 548 Core Collection publications and an h-index of 57 at Web of Science (WoS). His comprehensive review paper published in Annual Reviews in Control in 2008 on "Bibliographical Review on Reconfigurable Fault-tolerant Control Systems" (see here) has gained significant impact in the field worldwide, with currently 2,706 citations at Google Scholar and 1,608 citations at WoS. Dr. Zhang is a Fellow of IEEE and a Fellow of Canadian Society of Mechanical Engineering (CSME), as the President of International Society of Intelligent Unmanned Systems (ISIUS) during 2019-2022, and a member of the Technical Committee for several scientific societies including IEEE and IFAC. He has been an Editor-in-Chief, an Editor-at-Large, an Editorial (Advisory) Board Member, and an Associate Editor for several international journals, including as a Board Member of Governors and Regional Representative (North America) for the Journal of Intelligent & Robotic Systems, and an Associate Editor for the IEEE Transactions on Neural Networks & Learning Systems, IEEE Transactions on Industrial Electronics, and IEEE Transactions on Circuits and Systems - II: Express Briefs. He has also served as (Honorary) General Chair, Program Chair of several autonomous/unmanned systems, renewable energies, and smart cities relevant international conferences. More detailed information can be found at <http://users.encs.concordia.ca/~ymzhang/>.