

## Short Biosketch of DAN M. FRANGOPOL

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**Dr. Dan M. Frangopol** is the inaugural holder of the Fazlur R. Khan Endowed Chair of Structural Engineering and Architecture at Lehigh University. Before joining Lehigh University in 2006, he was Professor of Civil Engineering at the University of Colorado at Boulder, where he is now Professor Emeritus. From 1979-1983, he held the position of Project Structural Engineer with A. Lipski Consulting Engineers in Brussels, Belgium. In 1976, he received his doctorate in Applied Sciences from the University of Liège, Belgium.

Dr. Frangopol's main research interests are in the development and application of probabilistic concepts and methods to civil and marine engineering, including: structural reliability; life-cycle cost analysis; probability-based assessment, design, and multi-criteria life-cycle optimization of structures and infrastructure systems; structural health monitoring; life-cycle performance maintenance and management of structures and distributed infrastructure under extreme events (earthquakes, tsunamis, hurricanes, and floods); risk-based assessment and decision making; multi-hazard risk mitigation; infrastructure sustainability and resilience to disasters; climate change adaptation; and probabilistic mechanics. According to ASCE (2010) "*Dan M. Frangopol is a preeminent authority in bridge safety and maintenance management, structural system reliability, and life-cycle civil engineering. His contributions have defined much of the practice around design specifications, management methods, and optimization approaches. From the maintenance of deteriorated structures and the development of system redundancy factors to assessing the performance of long-span structures, Dr. Frangopol's research has not only saved time and money, but very likely also saved lives... Dr. Frangopol is a renowned teacher and mentor to future engineers.*" He is also "*widely recognized as a leading educator and creator in the field of life-cycle engineering.*" (ASCE 2015).

Dr. Frangopol is an experienced researcher and consultant to industry and government agencies, both nationally and abroad. His work has been funded by NSF, FHWA, ONR, NASA, USACE, AFOSR, ARDEC, ASCE and by numerous other agencies including the U.K. Highways Agency and the Dutch Ministry of Infrastructure and Environment. Dr. Frangopol holds four honorary doctorates (Doctor Honoris Causa) from the Polytechnic University of Milan (Politecnico di Milano), Italy, the University of Liège, Belgium, the Technical University of Civil Engineering Bucharest, Romania, and the Gheorghe Asachi Technical University of Iași, Romania. He is an Honorary Professor at 14 universities (Hong Kong Polytechnic, Tongji, Southeast, Hunan, Tianjin, Chang'an, Beijing Jiaotong, Chongqing Jiaotong, Dalian University of Technology, China University of Petroleum (East China), Changsha University of Science and Technology, Shenyang Jianzhu University, Royal Melbourne Institute of Technology (RMIT), and Harbin Institute of Technology), a Visiting Chair Professor at the National Taiwan University of Science and Technology, and a Guest Professor at 6 universities in Europe and Asia.

Dr. Frangopol is a Distinguished Member of ASCE, Foreign Member of the Academia Europaea (Academy of Europe), Foreign Member of the Royal Academy of Belgium for Science and the Arts, Honorary Member of the Romanian Academy, and Honorary Member of the Academy of Technical Sciences of Romania, Inaugural Fellow of SEI and EMI, Fellow of ACI, IABSE, and ISHMII, Honorary President of the IABMAS Brazil, Chile, Italy, and Turkey Groups, Honorary Member of the Portuguese Association for Bridge Maintenance and Safety, and Honorary Member of IABMAS Australia, China, and Japan Groups. Dr. Frangopol is the Founding President of the International Association for Bridge Maintenance and Safety (IABMAS), Founding President of the International Association for Life-Cycle Civil Engineering (IALCCE), and Founding Vice-President of the International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII). He is the Past Vice-President of the International Association for the Structural Safety and Reliability (IASSAR), Past Chair of the Executive Committee of the Technical Activities Division of the 20,000+ members of the Structural Engineering Institute (SEI) of ASCE, Past Vice-President and Governor of the Engineering Mechanics Institute of ASCE, Past Chair of the Executive Board of IASSAR, Past Chair of IFIP WG7.5 on Reliability and Optimization of Structural Systems, and the Founding Chair of the ASCE-SEI Technical Council on life-cycle performance, safety, reliability and risk of structural systems. He has held numerous leadership positions in national and international professional societies.

Dr. Frangopol is the recipient of several national and international awards including OPAL Leadership Award for Lifetime Accomplishments in Education (ASCE); Newmark Medal (ASCE); Housner Medal (ASCE); Ang Award (ASCE); Croes Medal (twice from ASCE); T.Y. Lin Medal (T.Y. LIN International); Khan Medal (IALCCE); Howard Award and Moisseiff Award (ASCE); Wellington Prize (ASCE); Noble Prize (ASCE); State-of-the-Art of Civil Engineering Award (three times from ASCE); Munro Prize (ELSEVIER); Research Award (KAJIMA); Research Prize (IASSAR); Senior Research Prize (IABMAS); OPA Award (IABSE); and Distinguished Probabilistic Methods Educator Award (SAE). He is also the recipient of the ASCE Lehigh Valley Section's 2016 Civil Engineer of the Year Award, the Lehigh University's Hillman Faculty Award, Libsch Research Award, and Hillman Award for Excellence in Graduate Advising, and the University of Colorado Excellence in Research, Scholarly and Creative Work Award.

Dr. Frangopol is the Founding Editor of *Structure and Infrastructure Engineering* an international peer-reviewed archival journal, included in the ISI Science Citation Index, and serves on ten other editorial boards. He is also the Founding Editor of the Book Series *Structures and Infrastructures*. Dr. Frangopol is the author or co-author of three books, 50 book chapters, over 400 articles in archival journals (including 10 award-winning papers), and more than 600 papers in conference proceedings. He has edited/co-edited 46 books and 22 special issues of archival journals. Dr. Frangopol's work has had a significant impact on structural engineering evidenced by an h-index of 76 and more than 23,000 citations (Google Scholar, 2019).

Dr. Frangopol has supervised the dissertations of 45 Ph.D. students and the theses and reports of 55 M.S. students. 27 of his former students and post-doctoral researchers are university professors in the United States and abroad, and many are prominent in professional practice and research laboratories.