
About the Book Series Editor



Dr. Dan M. Frangopol is the first holder of the Fazlur R. Khan Endowed Chair of Structural Engineering and Architecture at Lehigh University, Bethlehem, Pennsylvania, USA, and a Professor in the Department of Civil and Environmental Engineering at Lehigh University. He is also an Emeritus Professor of Civil Engineering at the University of Colorado at Boulder, USA, where he taught for more than two decades (1983–2006). Before joining the University of Colorado, he worked for four years (1979–1983) in structural design with A. Lipski Consulting Engineers in Brussels, Belgium. In 1976, he received his doctorate in Applied Sciences from the

University of Liège, Belgium, and holds two honorary doctorates (Doctor Honoris Causa) from the Technical University of Civil Engineering in Bucharest, Romania, and the University of Liège, Belgium. He is an Honorary Professor of the Hong Kong Polytechnic University, of the Tongji, Southeast, Tianjin, and Chang'an Universities, and a Visiting Chair Professor at the National Taiwan University of Science and Technology.

Dan Frangopol is a Distinguished Member of the American Society of Civil Engineers (ASCE), Inaugural Fellow of the Structural Engineering Institute, Fellow of the American Concrete Institute (ACI), Fellow of the International Association for Bridge and Structural Engineering (IABSE), and Fellow of the International Society for Health Monitoring of Intelligent Infrastructures (ISHMII). He is also an Honorary Member of the Romanian Academy of Technical Sciences, Honorary Member of the Portuguese Association for Bridge Maintenance and Safety, and Honorary Member of the IABMAS-China Group. He is the initiator and organizer of the Fazlur R. Khan Distinguished Lecture Series (<http://www.lehigh.edu/frkseries>) at Lehigh University.

Dan Frangopol is an experienced researcher and consultant to industry and government agencies, both nationally and abroad. His main research interests are in the application of probabilistic concepts and methods to civil and marine engineering, including structural reliability, probability-based design and optimization of buildings, bridges and naval ships, structural health monitoring, life-cycle performance maintenance and management of structures and infrastructures under uncertainty, risk-based assessment and decision making, infrastructure resilience to disasters, and stochastic mechanics.

According to ASCE (2010) “Dan M. Frangopol is a preeminent authority in bridge safety and maintenance management, structural systems 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's work has been funded by NSF, FHWA, NASA, ONR, WES, AFOSR and by numerous other agencies. He is the Founding President of the International Association for Bridge Maintenance and Safety (IABMAS, www.iabmas.org) and of the International Association for Life-Cycle Civil Engineering (IALCCE, www.ialcce.org), and Past Director of the Consortium on Advanced Life-Cycle Engineering for Sustainable Civil Environments (COALESCE). He is also the Chair of the Executive Board of the International Association for Structural Safety and Reliability (IASSAR, www.columbia.edu/cu/civileng/iassar), the former Vice-President of the International Society for Health Monitoring of Intelligent Infrastructures (ISHMII, www.ishmii.org), and the founder and current chair of the ASCE Technical Council on Life-Cycle Performance, Safety, Reliability and Risk of Structural Systems (<http://content.seinstitute.org/committees/strucsafety.html>).

Dan Frangopol is the recipient of several prestigious awards including the 2012 IALCCE Fazlur R. Khan Life-Cycle Civil Engineering Medal, the 2012 ASCE Arthur M. Wellington Prize, the 2012 IABMAS Senior Research Prize, the 2008 IALCCE Senior Award, the 2007 ASCE Ernest Howard Award, the 2006 IABSE OPAC Award, the 2006 Elsevier Munro Prize, the 2006 T. Y. Lin Medal, the 2005 ASCE Nathan M. Newmark Medal, the 2004 Kajima Research Award, the 2003 ASCE Moisseiff Award, the 2002 JSPS Fellowship Award for Research in Japan, the 2001 ASCE J. James R. Croes Medal, the 2001 IASSAR Research Prize, the 1998 and 2004 ASCE State-of-the-Art of Civil Engineering Award, and the 1996 Distinguished Probabilistic Methods Educator Award of the Society of Automotive Engineers (SAE). He has given plenary keynote lectures in numerous major conferences held in Asia, Australia, Europe, North America, South America, and Africa.

Dan Frangopol is the Founding Editor-in-Chief of *Structure and Infrastructure Engineering* (Taylor & Francis, www.informaworld.com/sie) an international peer-reviewed journal, which is included in the Science Citation Index. This journal is dedicated to recent advances in maintenance, management, and life-cycle performance of a wide range of structures and infrastructures. He is the author or co-author of more than 300 books, book chapters, and refereed journal articles, and over 500 papers in conference proceedings. He is also the editor or co-editor of more than 30 books published by ASCE, Balkema, CIMNE, CRC Press, Elsevier, McGraw-Hill, Taylor & Francis, and Thomas Telford and an editorial board member of several international journals. Additionally, he has chaired and organized several national and international structural engineering conferences and workshops.

Dan Frangopol has supervised 35 Ph.D. and 50 M.Sc. students. Many of his former students are professors at major universities in the United States, Asia, Europe, and South America, and several are prominent in professional practice and research laboratories.

For additional information on Dan M. Frangopol's activities, please visit <http://www.lehigh.edu/~dmf206/>.