

FABIO BIONDINI

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Fabio Biondini, Ph.D., P.E., F. IABSE, F.SEI, F.ASCE, is Professor of Structural Engineering and Former Chair of the Civil Engineering B.Sc./M.Sc. Degree Programs at Politecnico di Milano. He is founding Director of the post-graduate Master in *Engineering and Integrated Management of Highway Networks*, issued jointly by Politecnico di Milano and Politecnico di Torino. His education includes a 5yr Degree (equivalent to B.Sc. and M.Sc.) in Civil Engineering with honors from the University of Perugia (1993), a 2yr Master Degree (post-graduate Specialization) in Concrete Structures with full ranks (1996) and a Ph.D. in Seismic Engineering (2000) both from Politecnico di Milano. He is an experienced researcher and consultant engineer for advanced structural analysis problems, including forensic investigations related to structural failures of bridges, roof systems, breakwaters, and cranes. His main research areas are life-cycle civil engineering, structural reliability and risk analysis, and bridge engineering. Prof. Biondini is author or co-author of about 400 scientific publications,

including book contributions, book chapters, journal articles, and papers in conference proceedings. He is also co-Editor of the volumes *Life-Cycle Civil Engineering* (CRC Press), *Bridge Maintenance, Safety, Management, Resilience and Sustainability* (CRC Press), *Life-Cycle Design, Assessment and Maintenance of Structures and Infrastructure Systems* (ASCE Press), *Life-Cycle of Structures and Infrastructures Systems* (CRC Press), and *Effects of Climate Change on Life-Cycle Performance of Structures and Infrastructure Systems: Safety, Reliability and Risk* (ASCE Press).

The scientific contributions of Prof. Fabio Biondini cover several topics, including life-cycle risk, reliability, robustness, redundancy, resilience, and sustainability of deteriorating structural systems and infrastructure networks, with emphasis on the formulation of general methods and time-variant performance indicators for life-cycle design, assessment and maintenance of RC/PC bridges exposed to corrosion. The methodologies developed by Prof. Biondini have been successfully applied on a wide spectrum of structural engineering systems and applications, including the assessment, monitoring, maintenance, repair and rehabilitation of existing structures such as cable-stayed bridges, arch bridges, girder bridges, and landmark buildings.

Prof. Fabio Biondini holds leadership positions in international scientific and professional societies. He is Founding Member, Executive Board Member and Secretary General of the *International Association for Life-Cycle Civil Engineering* (IALCCE), Executive Committee Member of the *International Association for Bridge Maintenance And Safety* (IABMAS), and Former Chair of the ASCE-SEI Technical Council on *Life-Cycle Performance, Safety, Reliability and Risk of Structural Systems*. He is also serving as a Member of several international scientific and technical committees, including: IABMAS TC on *Bridge Load Testing*; IASSAR TC4 on *Life-Cycle Performance, Cost and Optimization*; IFIP WG 7.5 on *Reliability and Optimization of Structural Systems*; CEN/TC250/WG6 on *Robustness*; fib AG on *Robustness*. Past positions include: Chair of ASCE-SEI TC Task Group 1 on *Life-Cycle Performance of Structural Systems under Uncertainty*; Chair of ASCE-SEI TC Task Group 2 on *Reliability-Based Performance Indicators for Structural Systems*; Member of IABSE WC1 on *Structural Performance, Safety and Analysis*.

Prof. Biondini is Associate Editor of the peer-reviewed international journals *Structure and Infrastructure Engineering* (Taylor & Francis), and *Journal of Structural Engineering* (ASCE). He is also Editorial Board Member of *Structural Safety* (Elsevier), *Engineering Structures* (Elsevier), *Infrastructure Intelligence and Resilience* (Elsevier), and *Architecture, Structures and Construction* (Springer).

Prof. Biondini is the recipient of honors and awards, including: IFIP Young Researcher Award (2006); IABSE Outstanding Paper Award (2007); IALCCE Special Service Award (2010); Erskine Fellowship, University of Canterbury, New Zealand (2011); IABMAS Junior Prize (2012); IABMAS Special Service Award (2014); ASCE Fellowship (2016); SEI Fellowship (2017); Guest Professorship, Shenyang-Jianzhu University, China (2018-ongoing); Foreign Experts Hundred Talents Program, Liaoning Province, China (2019); IABSE Fellowship (2021); [Inaugural ASCE Dan M. Frangopol Medal for Life-Cycle Engineering of Civil Structures](#) (2025).

Prof. Biondini has given keynote and invited lectures at several international conferences and workshops held in Italy and other countries, including Brazil, China, Finland, France, Greece, India, Japan, Portugal, Spain, Switzerland, and United States. He has been visiting scholar, for research, teaching, and invited seminars, at several universities including: Lehigh University, Bethlehem, USA; University of Colorado, Boulder, USA; University of Illinois, Urbana, USA; Stanford University, USA; University of New South Wales, Sydney, Australia; Technical University of Catalonia, Barcelona, Spain; University of Canterbury, Christchurch, New Zealand; Tongji University, Shanghai, China; Xian Jiaotong Technical University, China; Shenyang-Jianzhu University, China; Dalian University, China.

Prof. Biondini organized and chaired international conferences, symposia, and workshops, including [IALCCE'08](#), [IABMAS 2012](#), [ASCE-SEI TC-TG1 2015](#), [ASCE-SEI TC-TG2 2022](#), and [IALCCE 2023](#). He is active in the Scientific Committee of several prominent international conferences and served as Scientific Committee co-Chair of IABMAS 2010, IALCCE 2016, IALCCE 2018, IALCCE 2020, and IALCCE 2023. Currently, he is serving as Scientific Committee co-Chair and Keynote Speaker at [IALCCE 2025](#) – The *Ninth International Symposium on Life-Cycle Civil Engineering*, to be held in Melbourne, Australia, on July 15-19, 2025. Personal webpage: biondini.faculty.polimi.it