

FABIO BIONDINI

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Dr. Fabio Biondini is Professor of Structural Engineering and Chair of the Civil Engineering Degree Programs at Politecnico di Milano. His education includes 5yr Degree in Civil Engineering with honors from the University of Perugia (1993), 2yr Master Degree (post-graduate Specialization) in Concrete Structures with full ranks (1996) and 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 several 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, structural optimization, and earthquake engineering. Dr. Biondini is author or co-author of over 300 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), and *Life-Cycle Design, Assessment and Maintenance of Structures and Infrastructures Systems* (ASCE Press).

The scientific contributions of Dr. Fabio Biondini cover several topics, including life-cycle risk, reliability, robustness, redundancy, and resilience 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 reinforced concrete bridges exposed to corrosion. The methodologies developed by Dr. Biondini have been successfully applied in engineering practice to the assessment, repair and rehabilitation of existing structures such as cable-stayed bridges, arch bridges, and landmark buildings.

Dr. Biondini 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); Past Chair of the SEI/ASCE Task Group 1 on *Life-Cycle Performance of Structural Systems under Uncertainty* and Task Group 2 on *Reliability-Based Performance Indicators for Structural Systems*, Technical Council on *Life-Cycle Performance, Safety, Reliability and Risk of Structural Systems*; Past Executive Board Secretary/Treasurer of the *International Association for Structural Safety and Reliability* (IASSAR); Member of IASSAR TC4 on *Life-Cycle Performance, Cost and Optimization*; Member of IFIP WG 7.5 on *Reliability and Optimization of Structural Systems*; Member of CEN/TC250/WG6 on *Robustness*; Member of fib AG on *Robustness*; Past Member of IABSE WC1 on *Structural Performance, Safety and Analysis*. He is also Editorial Board Member of the peer-reviewed international journals *Structure and Infrastructure Engineering* (Taylor & Francis), *Structural Safety* (Elsevier), and *Journal of Structural Engineering* (ASCE). Dr. 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), 100 Foreign Experts Program, Liaoning Province, China (2019).

Dr. 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; Shenyang Jianzhu University, China; Dalian University, China.

Dr. Biondini has been scientific organizer and co-chair of international conferences and workshops, including IALCCE 2008 (<http://www.ialcce08.org>), IABMAS 2012 (<http://www.iabmas2012.org>), and SEI/ASCE TC TG1 2015 (<http://bit.ly/asceworkshop>). Dr. Biondini is active in the Scientific Committee of several prominent international conferences. Currently, he is also serving as Scientific Committee co-Chair of the *Seventh International Symposium on Life-Cycle Civil Engineering* (IALCCE 2020), Shanghai, China, October 27-30, 2020.

For additional information on Dr. Biondini's scientific profile and research activities please visit the webpage: <http://intranet.dica.polimi.it/people/biondini-fabio>