

Short CV of BRUNO BRISEGHELLA

Personal data

First Name / NAME : Bruno Briseghella
Title : **Dean and Distinguished Professor**, PhD
Institution / Organisation : College of Civil Engineering,
Fuzhou University, Fuzhou (China)

Fields of expertise

Design of Bridges and Buildings, Composite steel and concrete structures, Refurbishment of bridges and buildings, Integral abutment bridges, Ambient vibration testing of bridges, Monitoring of bridges and buildings, Dynamics of structures, Earthquake engineering.

Languages (Mother tongue / Spoken / written)

Italian, English, (spoken and written)

University Education (Years / Institution / Degrees obtained)

1997 University of Padova/BSc and MSc in Structural Engineering
2005 University of Trento/PhD in Structural Engineering

Teaching and Research Experience (Years / Institution / Activities)

Teaching

2008 University of Fuzhou (PRC). College of Civil Engineering. Adjunct Professor
2010 University of Fuzhou (PRC). College of Civil Engineering. Chair Professor – Post-graduate Supervisor
2012 – University of Fuzhou (PRC). College of Civil Engineering. Distinguished Professor. Selected inside the “One Thousand Foreign Experts Programme”
2012 – Director of the Sustainable and Innovative Bridge Engineering Research Center, Fuzhou University (China)
2015 - Dean of the College of Civil Engineering, Fuzhou University (PRC)

Research Programmes (last years)

2011 Client: Fujian Province (China)
Title: “Integral Abutment Bridges”
2012 – 2015 Client: State Administration of Foreign Experts Affairs (China)
Title: “Integral Abutment Bridges”
2015 - Client; “Pisa Tower Association”
Title: “Structural Monitoring of Pisa Tower (Pisa, Italy)” with prof. Camillo Nuti (Roma Tre)
2014 – 2015 Client: CSH Design Institute (Wuhan, China)
Title: “Design Principle using EC of The Maputo Suspension Bridge (Maputo, Mozambique)”

2016 Client: National Science Foundation of China
Title: Research on Mechanism and Calculation Method of an Innovative Pile Isolation System for Integral Abutment Bridges”.

Agreement:

He has been in charge of the Following International Agreements.

- 2007 – University IUAV of Venice - Tongji University (China)
Agreement on research cooperation on Bridges
- 2007 University IUAV of Venice - University of Zagreb (Croatia)
Agreement on research cooperation on Bridges
- 2008 – University IUAV of Venice - University of Fuzhou (China)
Agreement on common research cooperation
- 2013 - University of Fuzhou (China) – University of Roma Tre (Italy)
Agreement on common research cooperation
- 2013 - University of Fuzhou (China) – ENEA (Italian National Agency for Energy Efficiency)
Agreement on common research cooperation
- 2013 - University of Fuzhou (China) – Middle East Technical University (Ankara, Turkey)
Agreement on common research cooperation
- 2013 - University of Fuzhou (China) – University of Modena and Reggio Emilia (Italy)
Agreement on common research cooperation
- 2016 - University of Fuzhou (China) – University of San Andreas (Bolivia)
Agreement on common research cooperation
- 2016 University of Fuzhou (China) – Tribhuvan University (Nepal)
Agreement on common research cooperation

Design patents

- 2007 Title: "Pillar for building constructions and structural node consisting of said pillar and one or more horizontal structural elements"
Inventors: a) Daniele, Franco; b) Zordan, Tobia; c) Briseghella, Bruno
- 2015 Title: "A connection between bridge superstructure and substructure made by steel tube with rubber"
Inventors: a) Briseghella, Bruno; b) Zordan, Tobia; c) Chen, Baochun; d) Xue, Junqing
- 2016 Title: "Construction method of the connection between bridge superstructure and substructure made by steel tube with rubber outside".
Inventors: a) Briseghella, Bruno; b) Zordan, Tobia; c) Chen, Baochun; d) Xue, Junqing.
- 2016 - Title: "A flexible joint between pile and pier cap to increase flexibility in integral abutment bridges".
- Inventors: a) Chen Baochun; b) Briseghella, Bruno; c) Huang, Fuyun; d) Qian, Haimin; e) Fu, Cui; f) Zhuang, Yizhou
- 2016 - Title: "A repair and retrofitting technique of damaged concrete piers".
- Inventors: a) Nuti, Camillo; b) Briseghella, Bruno; c) Nie, Shangjie; d) Xue, Junqing
- 2016 - Title: "A Testing Machine to assess the friction of sliding bearings".
- Inventors: a) Nuti, Camillo; b) Briseghella, Bruno; c) Nie, Shangjie; d) Xue, Junqing

Invited Lectures (more significant, last years)

- 2013 2nd International Bridge and Tunnel Technology Congress 2013, Shanghai
Title: "Sustainable Bridge Engineering"
- 2013 The 6° National Symposium on Seismic Retrofitting Techniques, Wuyishan (China), August 16-18, 2013
Title: "Recent Italian Advance in Seismic Retrofitting"
- 2013 Advanced Engineering Applications and Problems Conference (IMUS13) Ankara (Turkey), November 8, 2013
Title: "Recent Research Developments in SIBERC Research Center"
- 2014 International Forum on Seismic Mitigation of Structures Lanzhou (China), 9-10 October, 2014
Title: "Innovation in Seismic Retrofitting of Structures"
- 2014 1st Bridge Engineering Forum of China Wuhan (China), 30 October, 2014
Title: "Advances in Steel Bridges"
- 2015 ACE (Advances in Civil and Infrastructure Engineering Symposium Vietri sul Mare (Italy), 12-13 June, 2015
Title: "Advanced numerical techniques for Hybrid Structures"
Title: "Innovative seismic design and retrofit of bridges"
- 2016 Istanbul Bridge Conference, august 2016 (Istanbul Turkey)
Title: "Recent Developments on Seismic Design, Assessment and Retrofitting of Bridges. Sino-European Collaboration"
- 2016 International Conference on Theory and Application of Random Vibration (ICTARV2016) - The 10th National Conference on Theory and Application of Random Vibration - the 5th National Conference on Stochastic Dynamics of China - Fuzhou (China), November 5-6, 2016
Title: ""Robust optimization under uncertain parameters using random vibration theory: application to base isolation devices"

Publications

Proceedings

- [1]. Briseghella, B., Colasanti, V., Fenu, L., Nuti, C., Spacone, E., & Varum, H. (2017). Seismic analysis by macro-elements of circular earth constructions: the Chinese Fujian Tulou. In Dynamic Interaction of Soil and Structure (DISS_17) The 5th International Workshop. DISS_Edition.
- [2]. Lavorato, D., Fiorentino, G., Bergami, A. V., Ma, H. B., Nuti, C., Briseghella, B., ... & Zhou, W. D. (2017). Surface generation of asynchronous seismic signals for the seismic response analysis of bridges. 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Methods in Structural Dynamics and Earthquake Engineering, Rhodes, June 2017
- [3]. Lavorato, D., Bergami, A. V., Rago, C., Ma, H. B., Nuti, C., Vanzi, I., Briseghella, B., Zhou, W. D. (2017). Seismic behaviour of isolated rc bridges subjected to asynchronous seismic input. 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Methods in Structural Dynamics and Earthquake Engineering, Rhodes, June 2017
- [4]. Lavorato, D., Bergami, A.V., Nuti, C., Briseghella, B., Xue, J., Tarantino, A. M., Santini, S. (2017). Ultra-high-performance fiber-reinforced concrete jacket for the repair and the seismic retrofitting of italian and chinese rc bridges. 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Methods in Structural Dynamics and Earthquake Engineering,

Rhodes, June 2017

- [5]. Lavorato, D., Azeredo, J., Bergami, A.V., Salvador Filho, J. A. A., Nuti, C., Santini, S., Briseghella, B. (2017). RC column repaired with HPFRCC and confined with CFRP: numerical analyses to evaluate the column section capacity. Global Civil Engineering Conference (GCEC2017). 25 - 28 July 2017. Malaysia
- [6]. Fenu, L., Congiu, E., Briseghella, B. & Chen, B. (2017). Modi di rottura dei giunti di travi reticolari con aste tubolari. In CTA 2017-Le XXVI Giornate italiane della costruzione in acciaio. GECHI EDIZIONI.
- [7]. Gao, J., Liu, T., Briseghella, B., Marano, G. C. (2017). Integrated Structural Health Monitoring in steel arches bridges using continuous dynamic monitoring: two case studies in China. Joint COST TU1402 - COST TU1406 - IABSE WC1 Workshop: The Value of Structural Health Monitoring for the reliable Bridge Management, Zagreb, 2017
- [8]. D. Lavorato, A.V. Bergami, C. Nuti, B. Briseghella, A. M. Tarantino, S. Santini, Y. Huang, J. Xue, *Seismic Damaged Chinese RC bridges repaired and retrofitted by rapid intervention to improve plastic dissipation and shear strength*, 16th World Conference on Earthquake Engineering, 16WCEE 2017, Santiago Chile, January 9th to 13th 2017
- [9]. B. Briseghella, R. Greco, *Robust optimization under uncertain parameters using random vibration theory: application to base isolation devices*, International Conference on Theory and Application of Random Vibration (ICTARV), 4-5 November, 2016, Fuzhou, China

Keynote Presentation

- [10]. L. Fenu, B. Briseghella, E. Congiu, *Thrust Network Analysis (TNA) in designing curved shell supported bridges*, Italian Concrete Days 2016, 27-28 October, 2016, Roma, Italy
- [11]. C. Nuti, M. Munuz, B. Briseghella, *Implementation of a rating system for the assessment of the sustainability of short and medium span bridges*, Italian Concrete Days 2016, 27-28 October, 2016, Roma, Italy
- [12]. R. Greco, G.C. Marano, B. Briseghella, *Design Criteria for viscous dissipative links in RC wall-frame systems*, Italian Concrete Days 2016, 27-28 October, 2016, Roma, Italy
- [13]. D. Lavorato, J. Wu, Y. Huang, J. Xue, A. Bergami, B. Briseghella, C. Nuti, A. M. Tarantino, S. Santini, *New Solutions for Rapid Repair and Retrofit of RC Bridge Piers*, XII International Conference on Structural Repair and Rehabilitation (Cinpar 2016), 26-29 October, 2016, Porto, Portugal
- [14]. L. Fenu, B. Briseghella, E. Congiu, *Curved Footbridges supported by a shell obtained as an envelope of thrust-lines*, 8th International Conference on Arch Bridges, October 5-7, 2016, Wroclaw, Poland
- [15]. L. Fenu, E. Congiu, B. Briseghella, *Curved deck arch bridges supported by an inclined arch*, 19th IABSE Congress Stockholm, Challenges in Design and Construction of an Innovative and Sustainable Built Environment, 21-23 September 2016
- [16]. M. Munoz, B. Briseghella, M. Munuz Blake, *Study of time dependent properties of concrete on bridges built by the cantilever method (IBC16)*, Istanbul Bridge Conference, August 2016
- [17]. M. Munoz, B. Briseghella, C. Nuti, J. Xue, *A probabilistic evaluation of an integral abutment bridge*, IABMAS 2016 - 8th International Conference on Bridge Maintenance, Safety and Management, Foz do Iguaçu (Brazil), 2016
- [18]. M. Munoz, M. Iuliano, R. Yadav, B. Chen, B. Briseghella, *Improve the sustainability of a bridge during the Retrofitting*, IABMAS 2016 - 8th International Conference on Bridge Maintenance, Safety and Management, Foz do Iguaçu (Brazil), 2016
- [19]. M. Munoz, B. Briseghella, M. Munuz Blake, *Simplified Procedure for the calculation of concrete piles in Integral Abutment Bridges*, 1st International Symposium on Jointless Bridges", Fuzhou, 2016.
- [20]. M. Munoz, B. Briseghella, C. Nuti, J. Xue, *Semi static loads in an integral abutment bridge*, IABSE Conference, Guangzhou 2016: Bridges and Structures Sustainability - Seeking Intelligent Solutions – Report, 2016
- [21]. G. Fa, L. He, L. Fenu, E. Mazarolo, B. Briseghella, T. Zordan, *Comparison of Direct and Iterative Methods for Model Updating of a Curved Cable-stayed Bridge Using Experimental Modal Data*, IABSE Conference, Guangzhou 2016: Bridges and Structures Sustainability - Seeking Intelligent Solutions – Report, 2016
- [22]. D. Losanno, M. Iuliano, B. Briseghella, G. Serino, *Finite Element Model Updating of a Highway Bridge based on Operational Modal Analysis*, in J. Kruis, Y. Tsompanakis, B.H.V. Topping, (Editors), "Proceedings of the Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing", Civil-Comp Press, Stirlingshire, UK, Paper 140, 2015. doi:10.4203/ccp.108.140
- [23]. D. Lavorato, S. Santini, C. Nuti, B. Briseghella, J. Xue, *A repair and retrofitting intervention to improve plastic dissipation and shear strength of Chinese RC bridges*, Proceedings of IABSE Conference Ginevra 2015: Structural Engineering: Providing Solutions to Global Challenges.
- [24]. L. Fenu, B. Briseghella, T. Zordan, *Curved shell-supported footbridges*, Proceedings of IABSE Conference Ginevra 2015: Structural Engineering: Providing Solutions to Global Challenges.

- [25]. J. A. Lozano Galant, B. Briseghella; J. Turmo, T. Zordan, E-Learning, *The future of Structural Engineering Education?*, Proceedings of IABSE Conference Geneva 2015: Structural Engineering: Providing Solutions to Global Challenges.
- [26]. M. Munuz, J. Xue, B. Briseghella, B. *Integral Abutment Bridges with Steel-Concrete Composite Section*, 8th International Symposium on Steel Bridges: Innovation & New Challenges 2015 (SBIC-2015) which will be held in Istanbul between 14th and 16th September 2015
- [27]. N. Turrini, A. Perez Caldentey, E. Mazzarolo, B. Briseghella, L. Cano, *A discrete bond law for precast panels systems without reinforcement*, Proceedings of the 37th Madrid IABSE Symposium 2014
- [28]. J. Xue, B. Briseghella, B. Chen, T. Zordan, *Influence of substructure height on fully integral abutment bridge*, Proceedings of the 37th Madrid IABSE Symposium 2014
- [29]. Y. Huang, B. Briseghella, T. Zordan, Q. Wu, B. Chen, *Nonlinear Seismic Performance of Lightweight Bridge with CFST Composite Truss Girder and Lattice Pier*, Proceedings of the 37th Madrid IABSE Symposium 2014
- [30]. D. Lavorato, C. Nuti, S. Santini, B. Briseghella, J. Xue, W. Zhou, *A rapid repair solution for Chinese RC bridges to improve plastic dissipation, ductility and shear strength according capacity design criteria*, Proceedings of the First Istanbul Bridge Conference (IBC), August 2014
- [31]. Y. Huang, B. Briseghella, T. Zordan, Q. Wu, B. Chen, *Seismic Performance of an Innovative Concrete Filled Steel Tubular Truss Bridge*, Proceedings of the First Istanbul Bridge Conference (IBC), August 2014
- [32]. J. Xue, B. Briseghella, T. Zordan, B. Chen, *Research on the Jointless Retrofit of Multi-span Simply Supported Hollow Slab Bridges*, Proceedings of the First Istanbul Bridge Conference (IBC), August 2014
- [33]. J. Xue, B. Briseghella, T. Zordan, B. Chen, *Optimal Design of pile Foundation in Fully Integral Abutment Bridges*, Developments in International Bridge Engineering, selected Papers from Istanbul Bridge Conference 2014, Springer, 10.1007/978-3-319-19785-2, pp. 3-15.
- [34]. T. Zordan, T. Liu, B. Briseghella, Zhang Q, *Equivalent Linearization of Bridges with Bilinear Isolation Systems*, Proceedings of the 7th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2014), Shanghai, China, July 2014.
- [35]. Zordan T., Mazzarolo E., Briseghella B., Chen B.C., Feng Y., Siviero E., Fenu L., *Optimization of Calatrava Bridge in Venice*, Proceedings of the 7th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2014), Shanghai, China, July 2014.
- [36]. J. Xue, B. Briseghella, E. Mazzarolo, T. Zordan, B. Chen, *Italian National Road Authority IABs strategy*, Proceedings of the 7th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2014), Shanghai, China, July 2014.
- [37]. J.-C. Dong, B.C. Chen, Y. Zhuang, B. Briseghella, C. Yang, *Technical Research on Seamless and Continuity transformation of existing multi-span simply-supported hollow slab bridge*, Conference on Bridge Maintenance, Safety and Management (IABMAS 2014), Shanghai, China, July 2014.
- [38]. B. Briseghella, T. Zordan, J. Xue, B. Chen, Y. Zhuang, *Recent Developments on Joint-less Bridges in SIBER Research Center*, Proceedings of the International Workshop Integral/Jointless Bridges, Fuzhou, China, 8-13 March 2014.
- [39]. T. Zordan, J. Xue, Y. Huang, B. Briseghella, *Italian Road Administration strategy to retrofit existing bridges using IABs technology*, Proceedings of the International Workshop Integral/Jointless Bridges, Fuzhou, China, 8-13 March 2014.
- [40]. J. Xue, B. Briseghella, B. Chen, Y. Huang, *Effects of debonding on circular CFST columns with different eccentricity ratios*, Proceedings of the Arch Bridge Conference, Split, Croatia, Oct. 2013
- [41]. B. Briseghella, Y. Feng, L. Fenu, E. Mazzarolo, T. Zordan, *An Optimization Index To Identify The Optimal Design Solution of RC shell bridges*, Proceedings of the International Association for Shell and Spatial Structures (IASS) Symposium, 23-27 September 2013
- [42]. B. Briseghella, B. Chen, Y. Huang, J. Xue, T. Zordan, *Steel Arch Bridges in China*, Proceedings of C.T.A. Conference, Turin, Italy, September 2013
- [43]. Y.F. Huang, B. Briseghella, C.S. Liu, Q.X. Wu, B.C. Chen, *Experimental Study of Seismic Performance on A Continuous Bridge with CFST Composite Truss Girders and Lattice High Piers*, Proceedings 7th National Seismic Conference on Bridges and Highway, Oakland 20-22 May, 2013
- [44]. B. Chen, Q. Yan, F. Song, B. Briseghella, *Experimental study on the ultimate load-carrying capacities of concrete filled steel tube battened columns*, Proceedings 11th International Conference on Steel, Space & Composite Structures, Qingdao, China, 12-14 December 2012
- Keynote Presentation**
- [45]. B. Briseghella, A. Chen, C. Lan, E. Mazzarolo, X. Ruan, E. Siviero, T. Zordan, *Dynamic Assessment of a Curved Cable-Stayed Bridge Based on Multi-Year Monitoring*, Proceedings of International Conference IABSE Congress 2012, Seoul, September 2012
- [46]. B. Briseghella, T. Zordan, A. Romano, L. Zambianchi, G. Simone, T. Liu, *Lift-up and Base Isolation as*

a Retrofit Technique for R.C. Existing Building, Proceedings of 15th International Conference on Earthquake Engineering, Lisboa, 2012

- [47]. Y. Huang, Q. Wu, B. Chen, B. Briseghella, *Seismic Analysis of a Rigid Frame Continuous CFST Truss Girder Bridge with Composite Piers*, Proceedings of 5th International Conference on New Dimensions in Bridges, Flyovers, Overpasses & Elevated Structures, Wuyishan, China, 28 – 29 July 2012
- [48]. B. Briseghella, Y. Feng, L. Fenu, E. Siviero, T. Zordan, B. Chen, *Topology Optimization with Eigenfrequency of Concrete Shell Bridge*, Proceedings of 5th International Conference on New Dimensions in Bridges, Flyovers, Overpasses & Elevated Structures, Wuyishan, China, 28 – 29 July 2012.
- Keynote Presentation**
- [49]. W. Huang, L. Fenu, B. Briseghella, B. Chen, T. Zordan, *Static behaviour of prestressed stone arch footbridge*, Proceedings of 5th International Conference on New Dimensions in Bridges, Flyovers, Overpasses & Elevated Structures, Wuyishan, China, 28 – 29 July 2012
- [50]. J. Xue, B., Briseghella, T. Zordan, B., Chen, *Retrofitting of simply supported bridges using integral abutment bridge concept*, Proceedings of 13th International Conference on Inspection, Appraisal, Repairs and Maintenance of Structures, Wuyishan, China, 27 July 2012
- [51]. W. Huang, L. Fenu, B. Chen, J. Liu, B. Briseghella, *Design Resistance of Simply Welded Joint of Concrete-Filled Steel Tubular Truss Girder*, Proceedings of 10th International Conference on Advances in Steel Concrete Composite and Hybrid Structures Singapore, 2 – 4 July 2012
- [52]. E. Mazzarollo, L. Berto, B. Briseghella, A. Saetta, R. Scotta, T. Zordan, *Development and validation of an analytical bond model for cyclic excitations*, Proceedings of International Symposium Bond in Concrete, Brescia, Italy, June 17-20, 2012.
- [53]. B. Briseghella, T. Zordan, C. Lan, J. Xue, *Super Long Integral Abutment Bridges*, 20th National Conference of Bridge Engineering, Wuhan, China, May 2012.
- [54]. B. Briseghella, A. Chen, C. Lan, X. Li, E. Mazzarollo, T. Zordan, *Analysis on applicability of health monitoring techniques on a curved cable stayed bridge*, Proceedings of the 6th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012), Cernobbio, Lake Como, Italy, July 8-12, 2012.
- [55]. E. Mazzarollo, B. Briseghella, T. Zordan, *Bond-slip formulation for generalized excitations*, Proceedings of the 6th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012), Cernobbio, Lake Como, Italy, July 8-12, 2012.
- [56]. T. Zordan, B. Briseghella, C. Lan, J. Xue, *Long term behavior of an Integral Abutment Bridge designed for its limit length*, Proceedings of International Conference IABSE-IASS Symposium 2011, London, 20-23 September 2011
- [57]. B. Briseghella, L. Fenu, W. Huang, T. Zordan, *Prestressed Stone Arch Footbridge*, Proceedings of International Conference IABSE-IASS Symposium 2011, London, 20-23 September 2011
- [58]. B. Briseghella, C. Lan, E. Mazzarollo, E. Siviero, T. Zordan, *Fatigue Assessment on Fork End Connectors in a Cable Structure*, Proceedings of International Conference IABSE-IASS Symposium 2011, London, 20-23 September 2011
- [59]. B. Briseghella, L. Fenu, E. Siviero, T. Zordan, *Tensegrity footbridges with arch and straight deck: comparison of their structural behaviour*, Proceedings of the Fourth International Conference Footbridge 2011, Wroclaw (Poland), July 6-8, 2011
- [60]. J. Xue, B., Briseghella, B., Chen, *Effects of debonding on axial loaded circular cfst columns with different slenderness ratios*. Proceedings of the 3rd Chinese – Croatian Joint Colloquium "Sustainable Arch Bridges", Zabreb, 14 July 2011.
- [61]. J. Xue, B. Briseghella, B. Chen, *Parametric analysis of debonding on the circular CFST structures*, International Conference "The Structural Engineering World Congress (SEWC)", Como (Italy), 4-6 April 2011
- [62]. E. Reccia, A. Cecchi, E. Siviero, B. Briseghella, T. Zordan, *Multi-scale analysis of Venice trans-lagoon bridge*, International Conference "The Structural Engineering World Congress (SEWC)", Como (Italy), 4-6 April 2011
- [63]. T. Zordan, B. Briseghella, L. Fenu, E. Mazzarollo, E. Siviero, *Topology Optimization of a Shell Supported Bridge*, Proceedings of IASS Symposium 2010, November 2010, Shanghai, China
- [64]. J. Xue, B. Chen, B. Briseghella, *Numerical analysis of the Influence of Debonding on CFST Single Tube Arch*, Arch10 - 6th international conference on arch bridges, Fuzhou (China), October 2010
- [65]. S. Palaoro, E. Siviero, B. Briseghella, T. Zordan, *Concept and construction methods of arch bridges in Italy*, Arch10 - 6th international conference on arch bridges, Fuzhou (China), October 2010
- [66]. B. Briseghella, L. Fenu, C. Lan, E. Mazzarollo, E. Siviero, T. Zordan, *A New Multi-Span Arch Bridge*

- over the Piave River in Venice: Conceptual design and Structural Optimization, Arch10 - 6th international conference on arch bridges, Fuzhou (China), October 2010
- [67]. B. Briseghella, L. Fenu, E. Siviero, T. Zordan, *Tensigrity bridges: a survey and some proposals regarding arch bridges*, Arch10 - 6th international conference on arch bridges, Fuzhou (China), October 2010
- [68]. B. Briseghella, L. Fenu, W. Huang, T. Zordan, *Tensegrity bridge with prestressed deck*, IABSE Symposium, Venice, September 2010
- [69]. S. Palaoro, E. Siviero, B. Briseghella, T. Zordan, *The state of art of the Italian arch bridges*, IABSE Symposium, Venice, September 2010
- [70]. J. Xue, B. Chen, B. Briseghella, *Experimental research on debonding in concrete-filled steel tubes columns subjected to eccentric loading*, IABSE Symposium, Venice, September 2010
- [71]. B. Briseghella, L. Fenu, C. Lan, E. Mazzarolo, E. Siviero, T. Zordan, *Topology optimization to minimize unexpected bending moments in the shell supporting the deck of shell bridges*, IABSE Symposium, Venice, September 2010
- [72]. J. He, T. Zordan, A. Chen, B. Biseghella, R. M, X. Ruan, *Cyclic Behaviour of Prefabricated High-Strength Concrete Composite Beam-to-Column Joints*, IABSE Symposium, Venice, September 2010 (paper A-337)
- [73]. B. Briseghella, L. Fenu, C. Lan, E. Mazzarolo, E. Siviero, T. Zordan, *Optimization Design of Soil-Pile Interaction and Abutment Size of IABs*, IABSE Symposium, Venice, September 2010
- [74]. B. Briseghella, L. Fenu, C. Lan, E. Mazzarolo, E. Siviero, T. Zordan, *Shape optimization of an arch bridge by the evolutionary procedure*, 8th International Conference on Short & Medium Span Bridges, Vancouver (BC Canada), 3-6 August, 2010.
- [75]. B. Briseghella, E. Siviero, C. Lan, E. Mazzarolo, T. Zordan, *Safety Monitoring of the Cable Stayed Bridge in the Commercial Harbor of Venice, Italy*, Fifth International Conference on Bridge Maintenance, Safety and Management, IABMAS 2010, Pennsylvania, 11 – 15 July, 2010 (pagg. 1944-1951).
- [76]. T. Zordan, B. Briseghella, C. Lan, *Parametric analyses on concrete super long integral abutment bridges: a sustainable solution*, Proceedings of Sustainable Development Strategies for Constructions in Europe and China Conference, Roma, 2010
- [77]. B. Briseghella, E. Siviero, A. Zanchettin, T. Zordan, *Some latest applications in moment resisting composite joints*, Proceedings of FIB Symposium, October 2009, London, UK.
- [78]. B. Briseghella, Q. Zhang, T. Zordan, *Network arch bridges with externally inclined arches and composite steel and concrete decks*, Proceedings of IASS Symposium IASS-SLTE 2008, October 2008, Acapulco, Mexico.
- [79]. B. Briseghella, I. Paoletti, E. Siviero, T. Zordan, *Conceptual design of Spatial Bridges*, Proceedings of IASS Symposium IASS-SLTE 2008, October 2008, Acapulco, Mexico.
- [80]. B. Briseghella, F. Busatta, C. Gentile, T. Zordan, *Finite Element Modelling of a curved deck cable stayed bridge in Venice from operational modal analysis*, Proceedings of IABSE Congress, Chicago, September 2008
- [81]. B. Briseghella, T. Zordan, A. Chen, X. Ruan, E. Siviero, *Structural optimization of a non conventional composite steel and concrete connection through FE analysis*, Proceedings of IABSE Congress, Chicago, September 2008
- [82]. B. Briseghella, T. Zordan, *Twelve Network Arch Bridges in Abu Dhabi*, Proceedings of Chinese-Croatian Joint Colloquium on Long Arch Bridges, Brijuni (Croatia), July 2008
- [83]. B. Briseghella, E. Siviero, T. Zordan, *Erection Design and Testing of the IVth bridge over the Grand Canal in Venice*, Proceedings of the Third International Conference Footbridge 2008, Porto, 2-4 July 2008
- [84]. B. Briseghella, E. Siviero, T. Zordan, *The IVth Bridge over the Grand Canal of Venice: from conceptual design to construction*, Proceedings of IASS Symposium: Structural Architecture - Towards the future looking to the past, Venice, 3-6 December 2007
- [85]. B. Briseghella, U. Di Bennardo, E. Siviero, T. Zordan, *Structural optimization and construction of the San Donà Bridge*, Proceedings of IASS Symposium: Structural Architecture - Towards the future looking to the past, Venice, 3-6 December 2007
- [86]. B. Briseghella, E. de la Grennelais, U. Di Bennardo, E. Siviero, T. Zordan, *Structural optimization and construction of the new bridge in Venice – San Donà*, Third International conference “Structural Engineers World Congress 2007”, Bangalore (India), November 2007
- [87]. B. Briseghella, E. de la Grennelais, E. Siviero, T. Zordan, *Refurbishment of an arch bridge increasing its stiffness and reducing its weight*, Proceedings of IABSE Symposium Improving Infrastructure Worldwide, Weimar, September 2007
- [88]. B. Briseghella, N. Gallino, C. Gentile, T. Zordan, *Finite Element Modelling of a tied arch bridge from operational modal analysis*, Arch07 - 5th international conference on arch bridges, Madeira (Portugal),

September 2007

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Activities within International Organizations (Years / Committees and Conferences)

- 2000 to date IABSE (International Association for Bridge and Structural Engineering) member
- 2002 to date IABMAS Member
- 2005 Footbridge 2005, Venice. Member of the Organizing Committee

2007 IASS Symposium, Venice 2007. Member of the Organizing Committee

2007 Bridgeltaly 2007. Co-Chair of Scientific and Organizing Committee.

200 to 2011 IASS Member

2008 La Forma e la Struttura dei Ponti, Workshop, Cagliari, November 13-17. Co-Chair of the Scientific Committee

2008 2nd Sino-Italian Workshop, Venice. Co-Chair of the Organizing Committee

2008 Bridgeltaly 2008. Co-Chair of Scientific and Organizing Committee.

2009 - IABSE – Member of the Working Commission 7 on “Sustainable Engineering”.

2010 IABSE Symposium, Venice 2010. Secretary of the Organizing Committee

2010 Arch’10, Fuzhou China. Member of the Organizing Committee

2010 - Journal of the Construction Technology. Member of Editorial Committee

2011 SEWC - Structural Engineering World Conference, Como (Italy) Member of the Scientific Committee

2011- 2015 IABSE – Chair of the e-Learning Board

2011 - Bridge Magazine - Special Expert

2011 International Forum on City and Bridge Landscape of New Harbour City, Shanghai, Member of the Invited Experts Committee

2012 IABSE Symposium, Seoul (Korea) 2012. Member of the Scientific Committee

2012 13^o International Conference on “Inspection, appraisal, repairs and maintenance of structures (RB12)”, Fujian (China), Member of the Advisory Committee

2012 5^o International Conference on “New dimensions in bridges, flyovers, overpasses & elevated structures (BR12)”, Fujian (China), Member of the Advisory Committee

2012 - Journal of Architecture and Civil Engineering. Member of Editorial Committee

2012 - Association for Architecture and Civil Engineering (Supported by Chinese Academy of Engineering). Founding Member

2012 - Sustainable and Innovative Bridge Engineering Research Center (SIBERC) – Fujian Province University. Director of the Center

2013 1^o International Multilateral Workshop on Sustainability and Innovation in Civil Engineering, Fuzhou (China). Chair of the Organizing Committee.

2013 ARCH’13 International Conference, Split Croatia. Member of the Scientific Committee

2013 International Workshop on “Innovation in Seismic Isolation of Structures”, June 2013, Fuzhou (China). Chair of the Organizing Committee.

2013 International Symposium on “Teaching in Bridge Engineering”, Nov. 2013, Fuzhou (China). Member of the Organizing Committee.

2014 International Workshop on “Integral/Joint-less Bridges”, 8-13 March 2014, Fuzhou (China). Member of the Organizing Committee.

2014 4th International Structural Specialty Conference (ISSC-IV), Halifax, Canada, May 28-31, 2014. Member of the Scientific Committee

2014 IABMAS International Conference, Shanghai, Member of the Organizing Committee

2014 Istanbul Bridge Conference, Istanbul (Turkey). Member of the Organizing

- Committee.
- 2014 37th Madrid IABSE Symposium 2014, Member of the Scientific Committee
 - 2015 38th Geneva IABSE Symposium 2015, Member of the Scientific Committee
 - 2015 OpensSees Days 2015, Salerno, Member of the Scientific Committee
 - 2015 Advances in Civil and Infrastructure Engineering, Amalfi, Member of the Scientific Committee
 - 2015 8th International Symposium on Steel Bridges: Innovation & New Challenges 2015 (SBIC-2015), Member of the Scientific Committee
 - 2015 Member FIB Task Group 6.5 “Precast Concrete Bridges”.
 - 2016 Istanbul Bridge Conference, Istanbul (Turkey). Member of the Organizing Committee
 - 2016 Guangzhou IABSE Conference 2016. Member of the Scientific Committee
 - 2016 IInd International Workshop on “Integral/Joint-less Bridges”, May 2015, Fuzhou (China). Chair of the Organizing Committee.
 - 2016 Member IABSE Working Group 11 on “Bridges and Structures Management”
 - 2016 Member COST TU1406 on “Quality specifications for roadway bridges, standardization at a European level”.
 - 2016 1st International Workshop on “New Trends in Structural Engineering”, Fuzhou. Chair Scientific Committee
 - 2017 15th The East Asia-Pacific Conference on Structural Engineering and Construction (EASEC 2017), Xi'an (China), October 11 -13, 2017. Member of the Scientific Committee
 - 2017 39th IABSE Symposium 2017 ‘Engineering the Future’, Vancouver (Canada), September 21-23, 2017. Member of the Scientific Committee
 - 2017 IABSE Conference: 'Creativity and Collaboration – instilling imagination and innovation in structural design', BATH (UK), April 19-21, 2017. Member of the Scientific Committee
 - 2018 2018 IABSE Spring Conference - Kuala Lumpur, Malaysia, April 25-27, 2018. Member of the Scientific Committee
 - 2018 10th International Conference on Short and Medium Span Bridges, SMSB2018 - Quebec City, Canada, July 30 – August 3, 2018. Member of the Scientific Committee

He has been reviewer for many important International Journals, as “Engineering Structures – Elsevier”, “Journal of Bridge Engineering – ASCE”, “Journal of Aerospace Engineering – ASCE”, “Bulletin of Earthquake Engineering – Springer”, “Journal Structure and Infrastructure Engineering - Taylor & Francis”, “Structural Engineering International (SEI) – Journal of the International Association for Bridge and Structural Engineering (IABSE)”, “Computers and Concrete – Technopress”, “International Journal of Concrete Structures and Materials – Springer”, “Construction & Building Materials – Elsevier”, “Engineering Review – University of Rijeka “ and others.

Honours and Awards

- 2002 Young Engineers Best Paper Award. IABSE Symposium, Melbourne 2002. Title of paper: “A movable pedestrian bridge in the Viareggio Docks”

2012	Chinese State Specially Recruited Award, December 2012
2013	Fujian Province Friendship Award, September 2013
2013	China National Friendship Award, September 2013
2014	Honorary Citizenship Fuzhou City
2014	Outstanding Contribution in Reviewing – Engineering Structures
2015	Member of “University Accreditation Agency of Portugal”

Professional Experience. Major Projects Responsibility (Years / Place / Activities)

2002	Design of the long span roof for the Galatsi Sport Center, Olympic Games, Athens 2004 (L = 140m aprx.)
2005	Design of Isola della Scala (Verona) Bridge (integral abutment bridge, L = 414 m). Longest IAB in the world
2006	Design of San Donà Bridge in Venice (L = 5x100 m span)
2007	Erection Design of the IVth bridge over the Grand Canal in Venice designed by Santiago Calatrava
2008	Design of Twelve Network steel arch Bridges in Abu Dhabi (Emirates)
2011	Design of 20 Buildings with Seismic Isolation in L'Aquila (Italy)
2012	Design of 25 Bridges for Pedemontana Highway in Italy
2012	Detail Design of the Steel Gates for the Panama Channel (Panama)
2012	Detail Design of the Steel Gate for the MOSE system to protect Venice against the high water
2013	Detail Design of the New Safe Confinement of the Chernobyl Nuclear Power Plant
2014	EXPO Belgium Pavilion (Milan, Italy)