

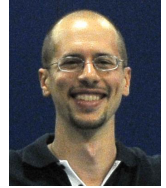
PERSONAL INFORMATION

Tommaso Argentini

 Politecnico di Milano
Department of Mechanical Engineering
Via La Masa 1, 20156, Milano, Italy

 +39 333 9102863  +39 02 2399 8360

 tommaso.argentini@polimi.it



Gender Male | Date of birth 17/09/1981 | Nationality Italian

EDUCATION

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- | | | |
|---------------------|--|-------|
| Jan 2007 - Feb 2010 | Ph.D. in Mechanical Engineering
Department of Mechanical Engineering, Politecnico di Milano
Dissertation: Time-domain modeling of nonlinear aerodynamic forces acting on bridge decks | EQF 8 |
| Oct 2003 - Jul 2006 | M.Sc. in Mechanical Engineering
Politecnico di Milano
Major: Mechatronics and robotics
Thesis: Numerical modeling and dynamic optimization of a washing machine | EQF 7 |
| Sep 2000 - Sep 2003 | B.Sc. in Mechanical Engineering
Politecnico di Milano | EQF 6 |

WORK EXPERIENCE

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|----------------------------|--|--|
| 05 Feb 2018 - present | Senior Researcher in Applied Mechanics (ING/IND-13)
Ricercatore a t.d. (art. 24 c.3-b L. 240/10)
Department of Mechanical Engineering
Politecnico di Milano, Italy
The main areas of interests are wind engineering, fluid-structure interaction, structural dynamics, passive and active structural control, full scale experimental testing, wind tunnel testing. | |
| 01 June 2013 - 04 Feb 2018 | Junior Researcher in Applied Mechanics (ING/IND-13)
Ricercatore a t.d. - t.pieno (art. 24 c.3-a L. 240/10)
Department of Mechanical Engineering
Politecnico di Milano, Italy | |
| March 2010 - June 2013 | Post-doc Research Fellow
Department of Mechanical Engineering
Politecnico di Milano, Italy
Scientific Area: Applied Mechanics (ING-IND/13)
Topic: Aeroelasticity and vibrations of mechanical systems, experimental techniques and wind tunnel testing | |

TEACHING EXPERIENCE

- A.Y. 2014/15 - present (4 years)** **Lecturer in Applied Mechanics**
10 ECTS, in Italian (Meccanica Applicata alle Macchine)
B.Sc. in Mechanical Engineering, Politecnico di Milano
Main topics: kinematics, statics and dynamics of rigid bodies; interactions in mechanical systems; dynamics of machines.
- A.Y. 2011/12 - present (7 years)** **Assistant Lecturer in Wind Engineering**
Prof. Diana, 6 ECTS, in English
M.Sc. in Mechanical/Aerospace/Civil Engineering, Politecnico di Milano
Main topics: atmospheric boundary layer; aerodynamics of bluff bodies; aeroelasticity of bridge and tall buildings; wind induced vibrations on cables ; vehicles aerodynamics and safety
- A.Y. 2016/17 - present (2 year)** **Assistant Lecturer in Applied Mechanics**
Profs. Pennacchi, 5 ECTS, in Italian (Meccanica Applicata)
B.Sc. in Engineering Physics, Politecnico di Milano
Main topics: kinematics, statics and dynamics of rigid bodies; interactions in mechanical systems; dynamics of machines; vibrations.
- A.Y. 2015/16 (1 year)** **Assistant Lecturer in Applied Mechanics**
Profs. Bociolone, 5 ECTS, in Italian (Meccanica Applicata)
B.Sc. in Biomedical Engineering, Politecnico di Milano
Main topics: kinematics, statics and dynamics of rigid bodies; interactions in mechanical systems; dynamics of machines; vibrations.
- A.Y. 2011/12 - 2014/2015 (4 years)** **Assistant Lecturer in Mechatronic Systems with Laboratory**
Prof. Braghin, 10 ECTS, in Italian (Sistemi Meccatronici e Laboratorio A)
M.Sc. in Mechanical Engineering, Politecnico di Milano
Main topics: methodologies for advanced active control; process simulation and control; electrical drives, pneumatic and hydraulic actuators; robotics laboratory; active control of mechanical systems.
- A.Y. 2008/09 - 2013/14 (6 years)** **Assistant Lecturer in Mechanical Vibrations**
Profs. Pennacchi/Zuin/Broglio, 7 ECTS, in Italian (Meccanica delle Vibrazioni)
B.Sc. in Mechanical Engineering, Politecnico di Milano
Main topics: linear and nonlinear vibrations in multi-degrees of freedom systems
- A.Y. 2008/09 - 2010/11 (3 years)** **Assistant Lecturer in Mechatronics Laboratory**
Prof. Braghin, 5 ECTS, in Italian (Laboratorio di Meccatronica)
M.Sc. in Mechanical Engineering, Politecnico di Milano
Main topics: methodologies for advanced active control; process simulation and control; electrical drives, pneumatic and hydraulic actuators; robotics laboratory; active control of mechanical systems.
- A.Y. 2007/08 (1 year)** **Assistant Lecturer in Fundamentals of Mechanics**
5 ECTS, in Italian (Fondamenti di meccanica teorica e applicata)
B.Sc. in Mechanical Engineering, Politecnico di Milano
Main topics: kinematics, statics and dynamics of rigid bodies; interactions in mechanical systems; dynamics of machines.

A.Y. 2007/08 (1 year) **Assistant Lecturer in Modeling and Measurements of Mechanical Systems**

Prof. Pennacchi, 5 ECTS, in Italian (Modellistica e Misure per i sistemi Meccanici)
B.Sc. in Mechanical Engineering, Politecnico di Milano

Main topics: linear and nonlinear vibrations in multi-degrees of freedom systems

A.Y. 2006/07 (1 year) **Assistant Lecturer in Automation Laboratory**

Prof. Mapelli, 5 ECTS, in Italian (Laboratorio di Automazione
M.Sc. in Automation and Control Engineering, Politecnico di Milano

Main topics: methodologies for advanced active control; process simulation and control; electrical drives, pneumatic and hydraulic actuators; robotics laboratory; active control of mechanical systems.

RESEARCH ACTIVITIES

The research activities are in the field of the dynamics of mechanical systems and structures, with a main focus on their interaction with the natural wind, using both numerical and experimental approaches.

In particular, the research activities address the following topics:

Aeroelasticity of long-span bridges

My research activity in the field of the aeroelasticity of long span bridges has been multifaceted, and I have been addressing different aspects of the fluid-structure interaction. Several topics have been studied:

- Non-linearity in the aerodynamic forces acting on bridge decks: experimental study of effects of large variations of the angle of attack on the aeroelastic coefficients for a wide range of reduced velocities, measuring both global and distributed forces. Definition of rheological and low-dimensional dynamic numerical models to reproduce them (e.g. [C14, C20, J10, J15, C40]).
- Aeroelastic stability: experimental analysis of the aeroelastic stability of several suspension and cable-stayed bridges using aeroelastic models in wind tunnel. Numerical analysis by means of nonlinear iterative multi-modal eigenvalue problems, or by means of linear and nonlinear methods in the time domain (e.g. [J2, J8]).
- Buffeting response: experimental testing of the dynamic response of structures subjected to the action of turbulent wind in wind tunnel. Numerical simulation in the frequency domain and in the time domain using a sectional multi-modal approach. Implementation, for time domain methods, of a numerical code to simulate multivariate and multi-correlated turbulent wind fields. Definition of equivalent static wind loads for slender structures. [C13, C16, C21, J12, C34]
- Dynamics of long-span bridges: modal analyses of suspended and cable-stayed bridges at completion and in construction stage, using finite element models. Design of dynamic scale models for wind tunnel testing (e.g. [J11, C22]).

These methodologies have been applied to the studies of several long-span bridges, such as the Canakkale bridge over the Dardanelli strait, the suspension bridge over the Messina strait, the cable-stayed bridge Forth Replacement Crossing in Edinburgh, the Izmit Bay suspension bridge in Turkey, the mixed cable-stayed/suspension Third Bosphorus bridge, the Adige cable-stayed bridge in Italy.

Aerodynamics of bluff bodies and complex structures

Several research activities have involved the study of the vortex-induced vibrations of slender structures, or the measurement of wind load on complex structures or bodies. In particular, we can list the following topics:

- Numerical and experimental analysis of vibrations induced by vortex shedding on towers, slender structures, and bridge decks, with design of passive countermeasures (e.g. the pylons of the new Juventus stadium, the A-frame of the Dubai Eye observation wheel [C17], the Swan River bridge in Perth [C7, C8]), the tower of the Forth Replacement Crossing [C34].
- Aerodynamic interference effects between parallel bridges, and aerodynamic effects of ground proximity on decks: experimental assessment of the effects on aerodynamic forces and on vortex-induced vibrations (e.g. the parallel Ewijk bridges [J6], the Metro B cable-stayed bridge in Santo Domingo [C3, C12], the Lusail bridge in Qatar).
- Design of wind barriers to protect road vehicles from wind actions: study of several geometries for wind barriers with a focus on both vehicles and side effects on decks (e.g. aeroelastic stability or vortex-induced vibrations). Analysis of aerodynamic forces acting on vehicles crossing the wake of pylons and design of wind barriers [J14, C39].
- Aerodynamics of complex buildings: experimental measurements of global wind loads on rigid scale models, assessment of pedestrian comfort in urban canyons, measurement of wind loads on louvers (e.g. Bosco Verticale buildings [J9, C36], Amore Pacific HQ tower [C6, C9], Swan river arch bridge [C7, C8]).
- Aerodynamic testing of full-scale high-speed trains in collaboration with Bombardier Transportation: during the certification procedure, one of the ETR1000 high speed test-trains has been instrumented with internal and external pressure sensors to assess the aerodynamic performances of the train in open air and in tunnels [C10, C11, J1].

Vibration control

The following activities in the field of vibration control have been carried out:

- Development of innovative suspension and damping systems for rotating machinery, with application to washing machines [J5, C15, C26, C43, C44].
- Development of active damping devices for aeroelastic models, using piezoelectric patch actuators [C28].
- Design of tuned mass dampers for structures excited by VIV. Some examples are the legs of frame the Dubai Eye observation wheel [C17], the stay-cables of the roundabout flyover Hovenring bridge in Eindhoven (NL) [J3, C24], and the high tapered obelisk of Torino fashion village [C2].

Modal analysis of large structures

I carried out several experimental campaigns aimed at identifying the modal parameters of large structures, in order to validate or update their finite element model.

The most significant examples include the modal identification of the highway cable-stayed bridge over the Adige bridge in Italy, the testing of the bridge over the Bacchiglione river, the modal identification of the walls of the combustion chamber of the energy plant in San Vittore del Lazio, and the modal identification of the aesthetic arches of the Expo in Milan (e.g. see [C19, C27, C31, C30]).

QUALIFICATIONS

Honours and awards

Recipient of the award for the best paper in wind engineering written by a young researcher for the article [J10], awarded by the Italian association for wind engineering (ANIV) in 2014.

Memberships

Member of the International Association of Bridge and Structural Engineers (IABSE).

Member of the IABSE Working Group 10: Super-long Span Bridge Aerodynamics. The activity of the working group consists in the development of numerical-experimental benchmarks to define a standard for the validation of numerical/analytical models for the simulation of the aeroelastic response of long span bridges

Editorial Reviewer for the following ISI journals: Journal of Wind Engineering and Industrial Aerodynamics; Wind Energy; Engineering Structures; Journal of Fluids Engineering; Journal of Vibration and Control; Wind and Structures, An International Journal; Structural Engineering International; Shock and Vibration; Engineering Applications of Computational Fluid Dynamics.

Reviewer for several International Conferences.

Speaker at scientific conferences Presenter of the papers [C41, C34, C33, C25, C28, C26, C21, C16, C7, C6, C8]

Collaborations Several research activities were performed in collaboration with both international research groups and engineering companies. Some results are reported in publications [J4, J14, C37, C39, C9, C10, C7, C17, C13, J11]

Project management Project manager of several research and technical projects funded by private companies:

- Contract 030/14PC: “Studio sul ponte Atirantado nella Repubblica Dominicana”
Client: Technital S.p.a.
Task: aerodynamic characterization of a concrete bridge deck for the tramway of Santo Domingo. Tailoring of the section to improve the aeroelastic stability, to lower static wind loads, and to suppress vortex induced vibrations
- 113/14PC: “Wind Loads on the Louvers of Amore Pacific HQ: 1:4 and 1:1 model tests”
Client: Amorepacific Co.
Task: Study of the wind induced loads on the sunshade fins of the AmorePacific HQ building in Seoul, using wind tunnel tests on 1:4 and 1:1 scale models. The study is aimed at optimizing the support structure of the fins.
- Contract 073/15PC: “Wind tunnel tests on Swan River Bridge”
Client: Enigma Engineering S.r.l.
Task: Study of the aerodynamic loads acting on a arch bridge in Perth (Australia) by means of wind tunnel tests and numerical analyses. Optimization of the performances by aerodynamic tailoring of the deck and changing the porosity of the cladding panels of the arches.
- Contract 047/16PC: “Risposta dinamica di strutture snelle all’azione del vento”
Client: Torino Fashion Village S.r.l.
Task: Characterization of VIV acting on a high tapered obelisk, and design of a passive damping system.
- Contract 007/17PC: “Anji Khad Cable Stayed Bridge - Wind tunnel tests”
Client: Mario Petrangeli & Associati S.r.l.
Task: Aerodynamic characterization of a truss bridge deck for a railway in India. Tailoring of the section to improve the aeroelastic stability, to lower static wind loads, and to suppress vortex induced vibrations.
- Contract 015/17PC: “Torre Maggiolina - Prove in Galleria del Vento”
Client: Abitare In S.p.a.
Task: Characterization of wind loads acting on a high rise building in a urban terrain
- Contract 018/17PC: “Prove in galleria del vento Campus Bocconi”
Client: Università Commerciale Luigi Bocconi
Task: Characterization of wind loads on buildings with large vertical walls and continuous curvature. These can give rise to significant negative values of the pressure coefficients, which, associated with the effects of the atmospheric turbulence in urban areas, may require a specific design of the supporting frame of the facade.

ADDITIONAL INFORMATION

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2
French	B1	B2	B1	B1	B1

Journal articles

- [J1] Claudio Somaschini, Tommaso Argentini, Daniele Rocchi, Paolo Schito, and Gisella Tomasini. "A new methodology for the assessment of the running resistance of trains without knowing the characteristics of the track: Application to full-scale experimental data". In: *Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit* 0.0 (2018), p. 0954409717751754. DOI: [10.1177/0954409717751754](https://doi.org/10.1177/0954409717751754).
- [J2] T. Argentini, G. Diana, D. Rocchi, and C. Somaschini. "A case-study of double multi-modal bridge flutter: Experimental result and numerical analysis". In: *Journal of Wind Engineering and Industrial Aerodynamics* 151 (2016), pp. 25–36. DOI: [10.1016/j.jweia.2016.01.004](https://doi.org/10.1016/j.jweia.2016.01.004).
- [J3] Tommaso Argentini, Lorenzo Rosa, and Alberto Zasso. "Wind-induced vibrations of the stay-cables of a roundabout flyover: assessment, repair, and countermeasures". In: *Journal of Performance of Constructed Facilities* 30.6 (2016), p. 04016046. DOI: [10.1061/\(ASCE\)CF.1943-5509.0000897](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000897).
- [J4] X. Ying, A. Zasso, F. Xu, T. Argentini, and D. Rocchi. "Research on the aerostatic characteristics of bridge deck based on OpenFOAM". In: *Wuhan Ligong Daxue Xuebao (Jiaotong Kexue Yu Gongcheng Ban)/Journal of Wuhan University of Technology (Transportation Science and Engineering)* 40.3 (2016). cited By 0, pp. 437–441. DOI: [10.3963/j.issn.2095-3844.2016.03.009](https://doi.org/10.3963/j.issn.2095-3844.2016.03.009).
- [J5] T. Argentini, M. Belloli, and P. Borghesani. "A Closed-Form Optimal Tuning of Mass Dampers for One Degree-of-Freedom Systems Under Rotating Unbalance Forcing". In: *Journal of Vibration and Acoustics* 137.3 (June 2015), p. 034501. ISSN: 0739-3717. DOI: [10.1115/1.4029576](https://doi.org/10.1115/1.4029576).
- [J6] T. Argentini, D. Rocchi, and A. Zasso. "Aerodynamic interference and vortex-induced vibrations on parallel bridges: The Ewijk bridge during different stages of refurbishment". In: *Journal of Wind Engineering and Industrial Aerodynamics* 147 (2015), pp. 276–282. ISSN: 0167-6105. DOI: <http://dx.doi.org/10.1016/j.jweia.2015.07.012>.
- [J7] D. Rocchi, T. Argentini, and M. Sbroisi. "Pressure Distribution and Global Forces on a Bridge Deck Section: Experimental and CFD Analysis of Static Aerodynamic Forces". In: *Journal of Bridge Engineering* (2015). DOI: [10.1061/\(ASCE\)BE.1943-5592.0000695](https://doi.org/10.1061/(ASCE)BE.1943-5592.0000695).
- [J8] T. Argentini, A. Pagani, D. Rocchi, and A. Zasso. "Monte Carlo analysis of total damping and flutter speed of a long span bridge: Effects of structural and aerodynamic uncertainties". In: *Journal of Wind Engineering and Industrial Aerodynamics* 128 (2014), pp. 90–104. ISSN: 0167-6105. DOI: [10.1016/j.jweia.2014.02.010](https://doi.org/10.1016/j.jweia.2014.02.010).
- [J9] A.M. Aly, F. Fossati, S. Muggiasca, T. Argentini, G. Bitsuamlak, A. Franchi, P. Crespi, N. Longarini, and A. Gan Chowdhury. "Wind loading on trees integrated with a building envelope". In: *Wind and Structures, An International Journal* 17.1 (2013), pp. 69–85. DOI: [10.12989/was.2013.17.1.069](https://doi.org/10.12989/was.2013.17.1.069).
- [J10] G. Diana, D. Rocchi, and T. Argentini. "An experimental validation of a band superposition model of the aerodynamic forces acting on multi-box deck sections". In: *Journal of Wind Engineering & Industrial Aerodynamics* 113 (2013), pp. 40–58. DOI: [10.1016/j.jweia.2012.12.005](https://doi.org/10.1016/j.jweia.2012.12.005).
- [J11] G. Diana, Y. Yamasaki, A. Larsen, D. Rocchi, S. Giappino, T. Argentini, A. Pagani, M. Villani, C. Somaschini, and M. Portentoso. "Construction stages of the long span suspension Izmit Bay Bridge: wind tunnel test assessment". In: *Journal of Wind Engineering & Industrial Aerodynamics* 123 (2013), pp. 300–310. DOI: [10.1016/j.jweia.2013.09.006](https://doi.org/10.1016/j.jweia.2013.09.006).
- [J12] A. Zasso, S. Stoyanoff, G. Diana, E. Vullo, D. Khazem, K. Serzanand A. Pagani, T. Argentini, L. Rosa, and P. O. Dallaire. "Validation analyses of integrated procedures for evaluation of stability, buffeting response and wind loads on the Messina Bridge". In: *Journal of Wind Engineering & Industrial Aerodynamics* 122 (2013), pp. 50–59. DOI: [10.1016/j.jweia.2013.07.013](https://doi.org/10.1016/j.jweia.2013.07.013).
- [J13] T. Argentini, D. Rocchi, S. Muggiasca, and A. Zasso. "Cross-sectional distributions versus integrated coefficients of flutter derivatives and aerodynamic admittances identified with surface pressure measurement". In: *Journal of Wind Engineering and Industrial Aerodynamics* 104–105 (2012), pp. 152–158. DOI: [doi:10.1016/j.jweia.2012.03.009](https://doi.org/10.1016/j.jweia.2012.03.009).

- [J14] T. Argentini, D. Rocchi, L. Rosa, E. Ozkan, and A. Zasso. "Cross wind effects on a vehicle crossing the wake of a bridge pylon". In: *Journal of Wind Engineering and Industrial Aerodynamics* 99.6-7 (2011), pp. 734–740. DOI: [10.1016/j.jweia.2011.01.021](https://doi.org/10.1016/j.jweia.2011.01.021).
- [J15] G. Diana, D. Rocchi, T. Argentini, and S. Muggiasca. "Aerodynamic instability of a bridge deck section model: Linear and nonlinear approach to force modeling". In: *Journal of Wind Engineering and Industrial Aerodynamics* 98.6-7 (2010), pp. 363–374. DOI: [10.1016/j.jweia.2010.01.003](https://doi.org/10.1016/j.jweia.2010.01.003).

Conference papers

- [C1] L. Amerio, T. Argentini, L. Bernini, F. Perotti, and A. Zasso. "Wind induced vibrations of a high tapered obelisk: Wind tunnel tests, numerical analysis and design of countermeasures". In: vol. 199. 2017, pp. 3091–3096. DOI: [10.1016/j.proeng.2017.09.560](https://doi.org/10.1016/j.proeng.2017.09.560).
- [C2] Luca Amerio, Tommaso Argentini, Daniele Rocchi, and Alberto Zasso. "Experimental and numerical aerodynamic optimization of a post-tensioned concrete railway bridge in tandem arrangement with a truss road bridge". In: *7th European African Conference on Wind Engineering*. 141. Liege, Belgium, July 2017. URL: <http://aimontefiore.org/EACWE2017/>.
- [C3] Luca Amerio, Tommaso Argentini, Luca Bernini, Federico Perotti, and Alberto Zasso. "Experimental wind tunnel tests and numerical analysis of the aerodynamic behaviour of a high tapered obelisk". In: *7th European African Conference on Wind Engineering*. 166. Liege, Belgium, July 2017. URL: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028353940>.
- [C4] Giorgio Diana, Daniele Rocchi, Tommaso Argentini, and Simone Omarini. "Flutter derivatives identification on a very large scale aeroelastic deck model". In: *39th IABSE Symposium Engineering the Future*. 978-3-85748-153-6. Vancouver, Canada, Sept. 2017, pp. 1997–2005.
- [C5] A. Zasso, T. Argentini, I. Bayati, M. Belloli, and D. Rocchi. "Super-long bridges with floating towers: The role of multi-box decks and Hardware-In-the-Loop technology for wind tunnel tests". In: vol. 276. 1. 2017. DOI: [10.1088/1757-899X/276/1/012008](https://doi.org/10.1088/1757-899X/276/1/012008).
- [C6] Luca Amerio, Tommaso Argentini, Luca Bernini, Daniele Rocchi, and Lorenzo Rosa. "Wind loads on small scale façade louvers: comparison of fiber Bragg grating sensors and differential pressure measurements". In: *IN-VENTO 2016, XIV Conference of the Italian Association for Wind Engineering*. Terni, Sept. 2016, pp. 78–79.
- [C7] Tommaso Argentini, Giorgio Diana, Stefano Giappino, Sara Muggiasca, Daniele Rocchi, Nicola Cosentino, and Massimo Majowiecki. "Wind effects on a pedestrian arch bridge with complex shape". In: *19th IABSE Congress Report: Challenges in Design and Construction of an Innovative and Sustainable Built Environment*. Stockholm: IABSE, Sept. 2016, pp. 1144–1151.
- [C8] Tommaso Argentini, Giorgio Diana, Sara Muggiasca, and Daniele Rocchi. "Wind induced vibrations on a pedestrian arch bridge: wind tunnel tests on rigid and sectional models". In: *IN-VENTO 2016, XIV Conference of the Italian Association for Wind Engineering*. Terni, Sept. 2016, pp. 133–134.
- [C9] D. Rocchi, T. Argentini, A. Allsop, L. Amerio, L. Bernini, and S. Racco. "Multi-scale methodology to assess wind loads on building louvers". In: *8th International Colloquium on Bluff Body Aerodynamics and Applications*. Boston, Massachusetts, USA, July 2016.
- [C10] Daniele Rocchi, Paolo Schito, Claudio Somaschini, Gisella Tomasini, Tommaso Argentini, Luca Barbone, Mikael Sima, Luca Bocciolini, and Giorgio Galeazzo. "Measurement of the aerodynamic features of the ETR1000-V300Zefiro high-speed train". In: *Proceedings of the 11th World Congress on Railway Research*. Milano, Italy., May 2016.
- [C11] C. Somaschini, T. Argentini, D. Rocchi, P. Schito, and G. Tomasini. "Full-scale experimental study on the new Italian high-speed train aerodynamics: on board and trackside measurements". In: *Second International Conference in Numerical and Experimental Aerodynamics of Road Vehicles and Trains (AEROVEHICLES 2)*. Göteborg, Sweden, June 2016. URL: <http://document.chalmers.se/doc/f8bf4cd4-9e5a-4e53-8d77-323a13610c0e>.
- [C12] A. Zasso, D. Rocchi, T. Argentini, S. Giappino, and T. Costantini. "Experimental and numerical aerodynamic analysis of a concrete railway bridge in tandem arrangement with a truss road bridge". In: *8th International Colloquium on Bluff Body Aerodynamics and Applications*. Boston, Massachusetts, USA, July 2016.

- [C13] Alberto Zasso, M. Belloli, T. Argentini, O. Flamand, G. Knapp, G. Grillaud, J. F. Klein, M. Virlogeux, and V. de Ville. "Third Bosphorus Bridge Aerodynamics: Sectional and Full-Aeroelastic Model Testing". English. In: *DEVELOPMENTS IN INTERNATIONAL BRIDGE ENGINEERING*. Ed. by Caner, A and Gulkan, P and Mahmood, K. Vol. 9. Springer Tracts on Transportation and Traffic. GEWERBESTRASSE 11, CHAM, CH-6330, SWITZERLAND: SPRINGER INT PUBLISHING AG, 2016, pp. 135–145. ISBN: 978-3-319-19785-2; 978-3-319-19784-5. DOI: {10.1007/978-3-319-19785-2_11}.
- [C14] T. Argentini, G. Diana, D. Rocchi, and C. Somaschini. "Experimental investigation of low-frequency turbulence effects on the aeroelastic response of model-scale long span bridge". In: *ICWE14, 14th International Conference on Wind Engineering*. 2015.
- [C15] P. Borghesani, T. Argentini, M. Belloli, and F.C. Robustelli. "Dynamic absorbers for rotating machinery". In: *Proceedings of the 9th IFToMM International Conference on Rotor Dynamics*. Ed. by P. Pennacchi. Vol. 21. Mechanisms and Machine Science. Springer International Publishing, 2015, pp. 1703–1714. DOI: 10.1007/978-3-319-06590-8_140. URL: http://dx.doi.org/10.1007/978-3-319-06590-8_140.
- [C16] Giorgio Diana, Daniele Rocchi, and Tommaso Argentini. "Buffeting response of long span bridges: numerical-experimental validation of fluid-structure interaction models". In: *IABSE Conference - Structural Engineering: Providing Solutions to Global Challenges*. Geneva, Switzerland, Sept. 2015. DOI: 10.2749/222137815818359618.
- [C17] Giorgio Diana, Tommaso Argentini, Mirsad Barucic, Marco Belloli, Stefano Giappino, Marc Groenendijk, and Sara Muggiasca. "Wind induced vibrations on large observation wheels". In: *ICWE14, 14th International Conference on Wind Engineering*. 2015.
- [C18] T. Argentini, D. Rocchi, and A. Zasso. "Investigation of vortex-induced vibrations of the Ewijk Bridge during different stages of refurbishment". In: *IN-VENTO 2014: XIII Conference of the Italian Association for Wind Engineering*. Genova, Italy, June 2014. URL: http://www.dicat.unige.it/carassale/invento2014/Abstracts/60_Argentini-et-al.pdf.
- [C19] T. Argentini, E. Sabbioni, and M. Vignati. "A Dynamic Model for Truck-Induced Vibrations on a Cable-Stayed Bridge". English. In: *Dynamics of Civil Structures, Volume 4*. Ed. by Fikret Necati Catbas. Conference Proceedings of the Society for Experimental Mechanics Series. Springer International Publishing, 2014, pp. 369–379. ISBN: 978-3-319-04545-0. DOI: 10.1007/978-3-319-04546-7_40.
- [C20] T. Argentini, G. Diana, M. Portentoso, and D. Rocchi. "Nonlinear buffeting response of bridge deck using the Band Superposition approach: comparison between rheological models and convolution integrals". In: *CWE2014: 6th International Symposium on Computational Wind Engineering*. 2014. URL: <http://www.cwe2014.org/>.
- [C21] G. Diana, D. Rocchi, and T. Argentini. "Buffeting Response Of The Izmit Bay Bridge: Numerical And Experimental Results". In: *Proceedings of the Istanbul Bridge Conference*. 2014. URL: <http://istanbulbridgeconference.org/2014/ISBN978-605-64131-6-2/>.
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