

Curriculum Vitae

Flora Faleschini, Ph.D.

PERSONAL INFORMATION



Date of birth: 22/12/1986
Place of birth: Gemona del Friuli (UD)
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Nationality: Italian
Present position: Assistant Professor
Languages: Italian (oral and written): native
English (oral and written): excellent
Spanish (oral and written): good

ACADEMIC QUALIFICATION

08/01/2018

Assistant Professor of Design of Structures at Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy.

20/03/2015

PhD in Civil and Environmental Engineering Sciences (Doctor Europaeus)
Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy.
Supervisor: Prof. Carlo Pellegrino.

14/07/2011

University of Padova: Master Degree in Environmental Engineering, cum laude.

20/07/2008

University of Padova: Bachelor Degree in Environmental Engineering.

RESEARCH and SCIENTIFIC EXPERIENCE

Research contracts:

- 01/09/2011 - 31/01/2012
Research contract at Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Object: "Data elaboration about concrete durability" (**5 months**).
- 01/08/2012 – 01/08/2013

Research fellowship at Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Object: “Development of innovative techniques for environmental sustainability of structures, with a multidisciplinary approach, in a life cycle perspective” (**12 months**).

- 15/11/2013 – 15/11/2014
Research fellowship at Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Object: “Life cycle assessment of structures with innovative materials” (**12 months**).
- 01/03/2015 – 01/03/2017
Research fellowship at Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Object: “The use of recycled aggregates for the improvement of sustainability in RC structures in a life cycle perspective” (**24 months**).
- 01/03/2017 – 31/12/2017
Research fellowship at Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Object: “Elastic-plastic-damaged meso-scale modelling of concrete using recycled aggregates.” (**9 months**).

Participation as speaker at national/international conferences:

1. Experimental Investigation on RC Beams containing Slag as Recycled Aggregate. *fib* Symposium, 11-14 June 2012, Stockholm, Sweden.
2. An experimental study about the possibility of substituting natural aggregates with EAF slag in concrete production. SCC Paris 2013, 7th International RILEM conference on Self-Compacting Concrete, 2-4 September 2013, Paris.
3. La valutazione della sostenibilità di calcestruzzi con scorie di acciaieria tramite un approccio al ciclo di vita. Giornate AICAP 2014, 22-23 Maggio 2014, Bergamo.
4. Proprietà reologiche di calcestruzzi riciclati. Giornate AICAP 2014, 22-23 Maggio 2014, Bergamo.
5. Use of metallurgical industrial by-products as sustainable route for concrete production. The 1st CIC Concrete Innovation Conference, 11-13 June, 2014, Oslo, Norway.
6. The use of Electric Arc Furnace Slag for structural concrete production: the research experience at University of Padova. EVIPAR 2015, 11-12 June 2015, Thessaloniki, Greece. (*Invited Lecture*)
7. New perspectives in the use of electric arc furnace slag as coarse aggregate for structural concrete. 8th European Slag Conference, 21-23 October 2015, Linz, Austria.
8. Use of EAF slag as recycled aggregate for concrete production: applications in structural elements. Valorization of Electric Arc Furnace slag in civil engineering applications Seminar, 29 April 2016, Padova, Italy.
9. Valorization of electric arc furnace slag for concrete production. 3rd Symposium on Urban Mining, 23-25 May 2016 Bergamo, Italy. (*Session Chairman*)
10. Durability of Electric Arc Furnace Concrete. The New Boundaries of Structural Concrete 2016, 29 September-1 October 2016, Capri, Italy.
11. Durability of Electric Arc Furnace Concrete. The New Boundaries of Structural Concrete 2016, 29 September-1 October 2016, Anacapri, Italy.
12. Sustainable cement-based materials with fine EAF slag aggregates. The New Boundaries of Structural Concrete 2016, 29 September-1 October 2016, Anacapri, Italy.
13. Environmental impacts of recycled aggregate concrete. Italian Concrete Days – Giornate aicap 2016 – Congresso CTE, 27-28 Ottobre 2016, Roma.

14. Gli aggregati riciclati o artificiali nelle Norme Tecniche per le Costruzioni. Workshop G4: Giornate ANPAR – Seminario: la produzione di calcestruzzi a bassa resistenza e misti cementati con aggregati riciclati e artificiali, 19 Maggio 2017, Ravenna. (*Invited Lecture*)
15. Problemi e opportunità per le scorie nere da forno elettrico. Workshop Slag New Life: Studio delle scorie nere EAF, 5 Giugno 2017, Brescia. (*Invited Lecture*)
16. Sustainable heavy-weight concretes for radiation shielding in strategic structures. Bâtiments et ouvrages en BETON: Application en Sécurité Incendie Risques. Université de Cergy-Pontoise, 13 June 2017, Paris, France. (*Invited Lecture*)
17. Experimental and numerical study of the cyclic behavior of exterior RC beam-column joints made with recycled concrete, XVII Convegno ANIDIS, 17-21 Settembre 2017, Pistoia.
18. Experimental behavior of damaged RC beam-column joints retrofitted with FRP composites, XVII Convegno ANIDIS, 17-21 Settembre 2017, Pistoia.
19. Demolition waste management after recent Italian earthquakes, 16th International Waste Management and Landfill Symposium, 1-6 October 2017, Santa Margherita di Pula, Cagliari, Italy.
20. Calcestruzzi con aggregati artificiali: esperienze di impiego. Linee guida per il confezionamento del calcestruzzo con aggregati riciclati o artificiali”, 8 Novembre 2017, ECOMONDO, Rimini. (*Invited Lecture*)

Organization of international conferences:

1. Member of the Organizing Committee of the 13th Sardinia, International Waste Management and Landfill Symposium Symposium, 2011.
2. Organizer of the 5th Meeting del *fib* Task Group 2.5: Bond and Material Models. Convenor: Prof. Giovanni Plizzari, 12-13 Marzo 2018, Università di Padova.

Participation into research projects:

- Member of the research Unit of Padova into ReLUIS-DPC 2014-2018 RS6 – Reti di distribuzione e utilità project, from 01/01/2014.
- Member of Comitato Tecnico per i Terreni Contaminati CTTC, Gruppo di Lavoro VIII: Terre e Rocce da Scavo, from 01/01/2014.
- Member of *fib* Task Group 2.5: Bond and Material Models, from 01/12/2014.
- Member of COST Action COST TU 1406 “Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)”, WG1 - Performance indicators, from 16/10/2015.
- Member of the research group lead by Prof. Riccardo Rossi at the University of Padova in the research project PRAT “Road Transport Modeling in network vulnerability analysis. A multidisciplinary approach”, funded by University of Padova. 18/02/2015 – 17/08/2017
- Member of the research group lead by Prof. Carlo Pellegrino at the University of Padova in the research project PRAT “Sustainable heavy weight concretes for nuclear shielding in strategic facilities”, funded by University of Padova, from 01-04-2016.
- Co-supervisor of ESR11 in the research project NEW-MINE Marie Skłodowska-Curie Actions (MSCA) Innovative Training Networks (ITN) H2020-MSCA-ITN-2014, Grant Agreement No 721185, beneficiaries: KU Leuven, RWTH Aachen, UGent, Montanuniversität Leoben, University of Padova, ETH Zürich, Linköping University, KTH Stockholm, Shanks, Italcementi.
- Member of the research group lead by Prof. Sonia Giovinazzi Speciale QuakeCore – New Zealand Centre for Earthquake Resilience 2018 “RfP – SP1.1 – Seismic resilience for fast-changing telecommunication networks. From 01/01/2018.

- Member of the research group lead by Prof. Carlo Pellegrino at the University of Padova in the research project UNI-IMPRESA 2017 “Developing of SMART a sustainable approaches for management and improvement of infrastructures and transportation NETworks (SMARNET)”, funded by University of Padova, from 01-01-2018.

International fellowship:

- *Fellowship* funded by Fondazione Ing. Aldo Gini, for a research period of **7 months** (2013) at Universitat Politècnica de Catalunya - BarcelonaTech (UPC), Barcelona, Spain, supervisor: Prof. Enric Vázquez. From 01/02/2013 to 01/10/2013.
- Visiting researcher (**1 month in 2016**) at Universitat Politècnica de Catalunya - BarcelonaTech (UPC), Barcelona, Spain, with Prof. Marilda Barra Bizinotto. From 01/11/2017 to 30/11/2017.
- Visiting researcher (**1 week in 2017**) at University of Basque Country, Bilbao, with Prof. Josè-Tomás San-José Lombera. From 09/05/2017 to 14/05/2017.
- *Fellowship* funded by Institute for Advanced Studies, University of Cergy-Pontoise, Paris, France, as *visiting Professor (10 days)* from 10-06-2017 to 20-06-2017.
- *Grant* funded by COST Action COST TU 1406 “Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)”, for the participation into the Winter School from 18 to 21 December 2017.
- *Fellowship* funded by Institute for Advanced Studies, University of Cergy-Pontoise, Paris, France, as *visiting Professor (14 days)* – year 2018.

Research honors:

- 21/03/2013
Research honor for young researcher "Workshop PER RISPARMIARE - utilizzo del poliuretano espanso rigido e risparmio energetico", March 2013.
- 20/12/2016
Highly Cited Research in Cement and Concrete Composites in recognition of the contribution to the quality of the journal made by: “Properties of concrete with black/oxidizing electric arc furnace aggregate”.
- 02/05/2017
Official acknowledgment in recognition of the contribution “Building damage assessment after the Riviera del Brenta tornado – northeast Italy”, by the Municipality of Pianiga (Italy), signed by the Major Dott. Massimo Calzavara.

Other:

- License - Professional Society of Civil and Environmental Engineers
No. License 5733 - Section A Professional Society of Engineers, Padova (Italy).
- Referee for International Journals:
ACI Structural Journal, Waste Management (from 2014).
Construction and Building Materials, Journal of Sustainable Metallurgy (from 2015).
Materials and Design, Resources, Conservation and Recycling, Journal of the Cleaner Production, Engineering Structures, International Journal of Concrete Structures and Materials, European Journal of Civil and Environmental Engineering, Materials, ACI Materials Journal (from 2016).
Materials and Structures, KSCE Journal of Civil Engineering, Buildings, Sustainability, Materials, Advances in Civil Engineering, Cogent Engineering, The Open Civil Engineering Journal, Concrete and Computers, Transportation Research Part A: Policy and Practice (from 2017).
- Referee for International Conferences:

MTEE 2015 - Conference on Material Technology & Environmental Engineering, 14-15th August, Shanghai, China.
IBMAC2016 – 16th International Brick and Block Masonry Conference, 26-30 June 2016, Padova, Italy.

- Membership: ACI Italy Chapter: from 2016.
- Editor and Member of the Editorial board of the indexed journal in Scopus “Advances in Civil Engineering” and of the Journal “American Journal of Construction and Building Materials”, edited by Science Publishing Group. (from 2017)

TEACHING

A.A. 2013/2014. Tutor in the course of “Design of structures in reinforced concrete”, Master in “Conception, Exécution et contrôle des structures et des fondations”, University of Padova.

A.A. 2015/2016: Contract Professor of the course “Design of Structures for Environmental Protection”, Master Degree in Environmental Engineering, University of Padova. **24 hours, 3CFU.**

A.A. 2016/2017: Contract Professor of the course “Design of Structures”, Degree in Architectural Engineering, University of Padova. **32 hours, 3CFU.**

A.A. 2016/2017: Contract Professor of the course “Assessment and Enhancement of Safety in Existing Structures”, Master Degree in Civil Engineering, University of Padova. **16 hours, 2 CFU.**

A.A. 2017/2018: Contract Professor of the course “Design of Structures”, Degree in Architectural Engineering, University of Padova. **48 hours, 4.5CFU. Teaching responsibility of the course.**

From 01/09/2011

Support to the classes of the courses in “Design of Structures”, Bachelor Degree in Civil Engineering, Degree in Architectural Engineering; “Design of Structures for Environmental Protection” Master Degree in Environmental Engineering. Co-supervisor of 23 Bachelor Degree thesis (Civil and Architectural Engineering), and 15 Master Degree thesis (Civil, Architectural and Environmental Engineering).

LIST of PUBLICATIONS

Indexed international journals:

- A1. Pellegrino C., Cavagnis P., Faleschini F., Brunelli K. (2013). “Properties of concretes with Black/Oxidizing Electric Arc Furnace slag aggregate”, *Cement and Concrete Composites*, Vol. 37, N. 1, pp. 232-240, ISSN: 0958-9465, doi: 10.1016/j.cemconcomp.2012.09.001.
- A2. Pellegrino C., Faleschini F. (2013). “Experimental behavior of RC beams with EAF slag as recycled aggregate”, *ACI Materials Journal*, Vol. 110, N. 2, pp. 197-205, ISSN: 0889-325X.
- A3. Faleschini F., De Marzi P., Pellegrino C. (2014). “Recycled concrete containing EAF slag: Environmental assessment through LCA”, *European Journal of Environmental and Civil Engineering*, Vol. 18, N. 9, pp. 1009-1024, ISSN: 1964-8189, doi: 10.1080/19648189.2014.922505.
- A4. Faleschini F., Jiménez C., Barra M., Aponte D., Vázquez E., Pellegrino C. (2014). “Rheology of fresh concretes with recycled aggregates”, *Construction and Building Materials*, Vol. 73, pp. 407-416, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2014.09.068.

- A5. Pellegrino C., Zanini M.A., Faleschini F., Corain L. (2015). “Predicting bond formulations for prestressed concrete elements”, *Engineering Structures*, Vol. 97, pp. 105-117, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2015.04.013.
- A6. Faleschini F., Zanini M.A., Brunelli K., Pellegrino C. (2015). “Valorization of co-combustion fly ash in concrete production”, *Materials and Design*, Vol. 85, pp. 687-694, ISSN: 0264-1275, doi: 10.1016/j.matdes.2015.07.079.
- A7. Faleschini F., Fernández-Ruiz A.M., Zanini M.A., Brunelli K., Pellegrino C., Hernández-Montes E. (2015). “High performance concrete with electric arc furnace slag as aggregate: Mechanical and durability properties”, *Construction and Building Materials*, Vol. 101, pp. 113-121, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2015.10.022.
- A8. Faleschini F., Zanini M.A., Pellegrino C., Pasinato S. (2016). “Sustainable management and supply of natural and recycled aggregates in a medium-size integrated plant”, *Waste Management*, Vol. 49, pp. 146-155, ISSN: 0956-053X, doi: 10.1016/j.wasman.2016.01.013.
- A9. Faleschini F., Brunelli K., Zanini M.A., Dabalà M., Pellegrino C. (2016). “Electric Arc Furnace Slag as Recycled Aggregate for Concrete Production”, *Journal of Sustainable Metallurgy*, Vol. 2, N. 1, pp.44-50, ISSN: 2199-3823, doi: 10.1007/s40831-015-0029-1.
- A10. Zampieri P., Zanini M.A., Faleschini F. (2016). "Influence of damage on the seismic failure analysis of masonry arches", *Construction and Building Materials*, Vol. 119, pp. 343-355, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2016.05.024.
- A11. Zanini M.A., Faleschini F., Pellegrino C. (2016). “Cost analysis for maintenance and seismic retrofit of existing bridges”, *Structure and Infrastructure Engineering*, Vol. 12, N. 11, pp. 1411-1427, ISSN: 1573-2479, doi: 10.1080/15732479.2015.1133661.
- A12. Zanini M.A., Faleschini F., Pellegrino C. (2016). “Bridge residual service-life prediction through Bayesian visual inspection and data updating”, *Structure and Infrastructure Engineering*, Vol. 13, N. 17, pp. 906-917, ISSN: 1573-2479, doi: 10.1080/15732479.2016.1225311.
- A13. Zampieri P., Zanini M.A., Faleschini F. (2016). “Derivation of analytical seismic fragility functions for common masonry bridge types: methodology and application to real cases”, *Engineering Failure Analysis*, Vol. 68, pp. 275-291, ISSN: 1350-6307, doi: 10.1016/j.engfailanal.2016.05.031.
- A14. Zanini M.A., Hofer L., Faleschini F., Zampieri P., Fabris N., Pellegrino C. (2016). “Preliminary macroseismic survey of the 2016 Amatrice seismic sequence”, *Annals of Geophysics*, Vol. 59, N. 5, ISSN: 1593-5213, doi: 10.4401/ag-7172.
- A15. Hofer L., Zanini M.A., Faleschini F. (2016). “Analysis of the 2016 Amatrice earthquake macroseismic data”, *Annals of Geophysics*, Vol. 59, N. 5, ISSN: 1593-5213, doi: 10.401/ag-7208.
- A16. Faleschini F., Santamaria A., Zanini M.A., San José J.-T., Pellegrino C. (2017). “Bond between steel reinforcement bars and electric arc furnace slag concrete”, *Materials and Structures/Materiaux et Constructions*, Vol. 50, N. 3, Article N. 170, ISSN: 1359-5997, doi: 10.1617/s11527-017-1038-2.
- A17. Zanini M.A., Faleschini F., Pellegrino C. (2017). “Probabilistic seismic risk forecasting of aging bridge networks”, *Engineering Structures*, Vol. 136, pp. 219-232, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2017.01.029.
- A18. Zanini M.A., Hofer L., Faleschini F., Pellegrino C. (2017). “Building damage assessment after the Riviera del Brenta tornado, northeast Italy”, *Natural Hazards*, V. 86, N. 3, pp. 1247-1273, ISSN: 0921-030X, doi: 10.1007/s11069-017-2741-6.

- A19. Faleschini F., Hofer L., Zanini M.A., dalla Benetta M., Pellegrino C. (2017). “Experimental behavior of beam-column joints made with EAF concrete under cyclic loading”, *Engineering Structures*, V. 139, pp. 81-95, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2017.02.038.
- A20. Zanini M.A., Faleschini F., Zampieri P., Pellegrino C., Gecchele G., Gastaldi M., Rossi R. (2017). “Post-quake urban road network functionality assessment for seismic emergency management in historical centres”, *Structures and Infrastructures Engineering*, Vol. 13, N. 9, pp. 1117-1129, ISSN: 1573-2479, doi: 10.1080/15732479.2016.1244211.
- A21. Faleschini F., Zanini M.A., Hofer L., Zampieri P., Pellegrino C. (2017). “Sustainable management of demolition waste in post-quake recovery processes: The Italian experience”, *International Journal of Disaster Risk Reduction*, Vol. 24, pp. 172-182, ISSN: 2212-4209, doi: 10.1016/j.ijdrr.2017.06.015.
- A22. Zampieri P., Zanini M.A., Faleschini F., Hofer L., Pellegrino C. (2017). “Failure analysis of masonry arch bridges subject to local pier scour”, *Engineering Failure Analysis*, Vol. 79, pp. 371-384. ISSN: 1350-6307, DOI: 10.1016/j.engfailanal.2017.05.028.
- A23. Barra Bizinotto M., Faleschini F., Jiménez Fernández C.G., Aponte Hernández D.F. (2017). “Effects of chemical admixtures on the rheology of fresh recycled aggregate concretes”, *Construction and Building Materials*, Vol. 151, pp. 353-362, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2017.06.111.
- A24. Hofer L., Zanini M.A., Faleschini F., Pellegrino C. (2017). “A Profitability analysis for assessing the optimal seismic retrofit strategy of industrial productive processes with business interruption consequences”, *Journal of Structural Engineering – ASCE*, Vol. 144(2). ISSN: 0733-9445, doi: 10.1061/(ASCE)ST.1943-541X.0001946.
- A25. da Silva M.M., Faleschini F., Brunelli K., Pellegrino C. (2017). “Effects of Electric Arc Furnace dust (EAFD) addition on setting and strength evolutions of cement pastes and mortars”, *European Journal of Civil and Environmental Engineering*, in press. ISSN: 1964-8189. doi: 10.1080/19648189.2017.1357776.
- A26. Faleschini F., Bragolusi P., Zanini M.A., Zampieri P., Pellegrino C. (2017). “Experimental and numerical investigation on the cyclic behavior of RC beam column joints with EAF slag concrete”, *Engineering Structures*, Vol. 152, pp. 335-347, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2017.09.022.
- A27. da Silva M.M., Faleschini F., Brunelli K., Pellegrino C. (2017). “Cementing efficiency of electric arc furnace dust in mortars”, *Construction and Building Materials*, Vol. 157, pp. 141-150, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2017.09.074.
- A28. Zampieri P., Faleschini F., Zanini M.A., Simoncello N. (2018). “Collapse mechanisms of masonry arches with settled springing”, *Engineering Structures*, Vol. 156, pp. 363-374, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2017.11.048.
- A29. Mazzucco G., Xotta G., Pomaro B., Salomoni V.A., Faleschini F. (2018). “Elastoplastic-damaged meso-scale modelling of concrete with recycled aggregates”, *Composites Part B: Engineering*, Vol. 140, pp. 145-156, ISSN: 1359-8368, doi: 10.1016/j.compositesb.2017.12.018.
- A30. De Domenico D., Faleschini F., Pellegrino C., Ricciardi G. (2018) “Structural behavior of RC beams containing EAF slag as recycled aggregate: Numerical versus experimental results”. *Construction and Building Materials*, Vol. 171, pp. 321-337, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2018.03.128.

Indexed international conferences:

- B1. Pellegrino C., Faleschini F. (2012). “Experimental investigation on RC beams containing slag as recycled aggregate”, *fib Symposium 2012: Concrete Structures for Sustainable Community - Proceedings*, pp. 451-454, 11-14 June 2012, Stockholm, Sweden. ISBN: 978-919800981-1.
- B2. Morbin R., Faleschini F., Zanini M.A., Caldon M., Marchesini F. P., Maiorana E., Pellegrino C. (2014). “Improvement of dynamic behaviour of the Varesine-Garibaldi footbridge (Milan, Italy) with TMD”, *Civil-Comp Proceedings*, Vol. 106, Proceedings of the 12th International Conference on Computational Structures Technology CST2014, 2-5 September 2014, Naples, Italy. ISSN: 17593433.
- B3. Gonzalez J., Faleschini F., D'Antino T., Pellegrino C. (2015). “Bond behavior and sustainability of FRCM composites applied to masonry elements”, *Civil-Comp Proceedings*, Vol. 108, Proceedings of the 15th International Conference on Civil, Structural and Environmental Engineering Computing, 1-4 September 2015, Prague, Czech Republic. ISSN: 17593433.
- B4. Mazzucco G., Xotta G., Pomaro B., Majorana C.E., Faleschini F., Pellegrino C. (2015). “Mesoscale Modelling of Concrete with Recycled Aggregates”, *CONCREEP 2015: Mechanics and Physics of Creep, Shrinkage, and Durability of Concrete and Concrete Structures*, pp. 853-863, Proceedings of the 10th International Conference on Mechanics and Physics of Creep, Shrinkage, and Durability of Concrete and Concrete Structures 2015, 21-23 September 2015, Vienna, Austria. ISBN: 978-078447934-6, doi: 10.1061/9780784479346.101.
- B5. Zanini M.A., Faleschini F., Hofer L., Franchetti P., Pellegrino C. (2016). “Maintenance and seismic retrofit cost assessment of existing bridges”, *Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks – Proceedings of the 8th International Conference on Bridge Maintenance, Safety and Management IABMAS2016*, pp. 1106-1112, 26-30 June 2016, Foz do Iguacu, Brazil. ISBN 978-1-138-02851-7.
- B6. Zanini M.A., Faleschini F., Pellegrino C. (2016). “Seismic loss assessment of deteriorating bridge networks”, *Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks – Proceedings of the 8th International Conference on Bridge Maintenance, Safety and Management IABMAS2016*, pp. 1145-1152, 26-30 June 2016, Foz do Iguacu, Brazil. ISBN 978-1-138-02851-7.
- B7. Zanini M.A., Andreotti M., Mocellin P., Faleschini F., Vianello C., Pellegrino C., Maschio G., Modena C. (2016). “Numerical analysis of the structural response of RC-framed buildings subjected to internal explosions”, *Brick and Block Masonry: Trends, Innovations and Challenges - Proceedings of the 16th International Brick and Block Masonry Conference, IBMAC 2016*, pp. 1015-1020, 26-30 June 2016, Padova, Italy. ISBN 978-1-138-02999-6.
- B8. Zanini M.A., Vianello C., Faleschini F., Hofer L., Maschio G. (2016). “A framework for probabilistic seismic risk assessment of NG distribution networks”, *Chemical Engineering Transactions* 53, pp.163-168. ISSN: 22839216, doi: 10.3303/CET1653028.
- B9. Zanini M.A., Faleschini F., Pellegrino C. (2016). “Bridge life-cycle prediction through visual inspection data updating”, *Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure - 5th International Symposium on Life-Cycle Engineering, IALCCE 2016*, pp. 1518-1525, 16-19 October 2016, Delft, The Netherlands. ISBN 978-1-138-02847-0.

Monography:

- C1. Pellegrino C., Faleschini F. (2016). "Sustainability improvements in concrete industry", *Springer, Green Energy and Technology Serie*. ISBN: 978-3-319-28538-2, doi: 10.1007/978-3-319-28540-5, ISSN: 1865-3529.

National journals:

- D1. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2013). "Studio dell'evoluzione della vulnerabilità sismica", *Strade & Autostrade*, Vol. 99, pp. 44-47. EDI-CEM S.r.l. - ISSN: 1723-2155.
- D2. Faleschini F., Zanini M.A., Pellegrino C., D'Antino T. (2013). "Indagine sperimentale sul comportamento strutturale di pannelli multistrato con isolanti poliuretanic", *Poliuretano*, Semestrale Nazionale di informazione sull'isolamento termico, Anno XXV, Vol. 18, pp. 10. StudioEmme S.r.l. Editore, Aut.Trib.VI n. 598 del 7/6/88 - ROC n° 8184.
- D3. Faleschini F., Zanini M.A., Pellegrino C. (2013). "Il calcestruzzo riciclato con scorie di acciaieria", *Strade & Autostrade*, Vol. 99, pp. 85-88. EDI-CEM S.r.l. - ISSN: 1723-2155.
- D4. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2014). "Br.I.N.S.E.: la valutazione della vulnerabilità sismica dei ponti", *Strade & Autostrade*, Vol. 107, pp. 72-75. EDI-CEM S.r.l. - ISSN: 1723-2155.
- D5. Zanini M.A., Cester N., Faleschini F., Pellegrino C. (2015). "Un applicativo per il deterioramento di ponti", *Strade & Autostrade*, Vol. 110, pp. 72-75. EDI-CEM S.r.l. - ISSN: 1723-2155.
- D6. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2015). "La gestione delle verifiche post-sisma per le infrastrutture ferroviarie", *Ingegneria Ferroviaria*, Vol. 9, pp. 691-714. CIFI – Collegio Ingegneri Ferroviari Italiani. ISSN: 0020-0956.
- D7. Faleschini F., Zanini M.A., Zordan A., Pellegrino C., Pasinato S. (2016). "Eco-aggregati riciclati: performance meccaniche e sostenibilità ambientale", *Strade & Autostrade*, Vol. 117, pp. 70-74. EDI-CEM S.r.l. - ISSN: 1723-2155.

International conferences:

- E1. Faleschini F., Pellegrino C. (2013). "An experimental study about the possibility of substituting natural aggregates with EAF slag in concrete production", *7th International RILEM Conference on Self-Compacting Concrete, 1st International RILEM Conference on Rheology and Processing of Construction Materials (Joined Conferences)*, 2-4 September 2013, Paris.
- E2. Faleschini F., Pellegrino C. (2014). "Use of metallurgical industrial by-products as sustainable route for concrete production", *The 1st CIC Concrete Innovation Conference*, 11-13 June, 2014, Oslo, Norway.
- E3. Faleschini F., Brunelli K., Dabalà M., Pellegrino C. (2015). "High performances concrete with EAF slag as coarse aggregates", *Slag Valorisation Symposium*, 15-17 April 2015, Leuven, Belgium.
- E4. Zanini M.A., Faleschini F., Morbin R., Gastaldi M., Rossi R., Pellegrino C., Modena C. (2016). "Interaction between building collapse and road serviceability during seismic emergency operations in urban centers", *Applied Mechanics and Materials*, Vol. 847, pp. 319-324, Proceedings of The 2nd International Symposium on Advances in Civil and Infrastructure Engineering ACE Conference 2015, 12-13 June 2015, Vietri sul Mare, Italy. ISSN 1662-7482, doi: 10.4028/www.scientific.net/AMM.847.319.

- E5. Faleschini F., Zanini M.A., Brunelli K., Pellegrino C. (2015). “Use of Electric Arc Furnace (EAF) slag for high strength concrete production”, *Applied Mechanics and Materials*, Vol. 847, pp. 537-543, Proceedings of The 2nd International Symposium on Advances in Civil and Infrastructure Engineering ACE Conference 2015, 12-13 June 2015, Vietri sul Mare, Italy. ISSN 1662-7482, doi: 10.4028/www.scientific.net/AMM.847.537.
- E6. Pellegrino C., Faleschini F. (2015). “The use of Electric Arc Furnace Slag for structural concrete production: the research experience at University of Padova”, *Industrial By-Products Research and Development Association EVIPAR 2015*, 11-12 June 2015, Thessaloniki, Greece.
- E7. Mazzucco G., Xotta G., Pomaro B., Faleschini F., Pellegrino C., Majorana C. (2015). “Compelling issues in modelling concrete with recycled aggregates”, *International Conference on Computational Modeling of Fracture and Failure CFRAC 2015*, 3-5 June 2015, Cachan, France.
- E8. Faleschini F., Zanini M.A., Pellegrino C. (2015). “New perspectives in the use of electric arc furnace slag as coarse aggregate for structural concrete”, *8th European Slag Conference*, 21-23 October 2015, Linz, Austria.
- E9. Zanini M.A., Faleschini F., Fabris N., Pellegrino C. (2016). “Qualitative performance indicators for bridge management in Italy”, *COST TU 1406 Action: Quality specifications for roadway bridges, standardization at a European level. Belgrade Meeting*, 30 March – 1 April 2016, Belgrade, Serbia. ISBN: 978-86-7518-187-3.
- E10. Faleschini F., Brunelli K., Pellegrino C. (2016). “Valorization of electric arc furnace slag for concrete production”, *3rd Symposium on Urban Mining*, 23-25 May 2016 Bergamo, Italy.
- E11. Faleschini F., Krunelli K., Dabalà M., Pellegrino C. (2016). “Electric arc furnace slag: a sustainable valorization in civil engineering applications”, *11th European Electric Steelmaking Conference & Expo*, 25-27 May 2016, Venice, Italy.
- E12. Zanini M.A., Hofer L., Faleschini F., Zampieri P., Pellegrino C. (2016). “Performance goal assessment for existing bridges subject to pier local scour”, *COST TU 1406 Action: Quality specifications for roadway bridges, standardization at a European level. Delft Meeting*, 20 – 21 October 2016, Delft, The Netherlands. ISBN 978-90-365-4325-5.
- E13. Zanini M.A., Faleschini F., Ademovic N., Prendergast L.J., Gavin K., Limongelli M.P. (2017). “Structural Health Monitoring and Design Code compliance for performance assessment of bridges under scour and seismic hazards”, *COST TU 1406 Action: Quality specifications for roadway bridges, standardization at a European level. Zagreb Meeting*, 2 – 3 March 2017, Zagreb, Croatia. ISBN: 978-953-8168-08-6.
- E14. Faleschini F. (2017). “Sustainable heavy-weight concretes for radiation shielding in strategic structures”, *Bâtiments et ouvrages en BETON: Application en Sécurité Incendie Risques*. Université de Cergy-Pontoise, 13 June 2017, Paris, France.
- E15. Faleschini F., Gonzalez-Libreros J., Hofer L., Sneed L., Pellegrino C. (2017). “Experimental Behavior of a Severely Damaged RC Beam-Column Joint Strengthened with FRCM Composites”, *SMAR 2017 – Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, 13-15 September 2017, Zurich, Switzerland.
- E16. Faleschini F., Zanini M.A., Hofer L., Pellegrino C. (2017). “Demolition waste management after recent Italian earthquakes”, *16th International Waste Management and Landfill Symposium – Sardinia 2017*, 1-6 October 2017, S. Margherita di Pula, Cagliari. ISBN 978-88-6265-010-6.
- E17. Pomaro B., Xotta G., Salomoni V., Maiorana C., Faleschini F., Gramegna F., Cherubini R. (2017). “3D modeling of Radiation Induced Volumetric Expansion (RIVE) on concrete: thermo-mechanical

implications and shielding properties investigations on a heavy-weight sustainable concrete”, *Third general meeting – International Committee on Irradiated Concrete (ICIC)*, 7-10 November 2017, Prague, Czech Republic.

National conferences:

- F1. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2013). “Valutazione dell’evoluzione temporale della vulnerabilità sismica di cavalcavia autostradali soggetti a degrado”, *XV Convegno Nazionale ANIDIS – L’Ingegneria Sismica in Italia*, 30 Giugno – 4 Luglio 2013, Padova. ISBN: 978-88-97385-59-2.
- F2. Faleschini F., Pellegrino C. (2014). “La valutazione della sostenibilità di calcestruzzi con scorie di acciaieria tramite un approccio al ciclo di vita”, *Giornate AICAP 2014*, 22-23 Maggio 2014, Bergamo. ISBN: 978-88-88590-82-0.
- F3. Faleschini F., Pellegrino C., Vázquez E., Jimenez C., Barra M. (2014). “Proprietà reologiche di calcestruzzi riciclati”, *Giornate AICAP 2014*, 22-23 Maggio 2014, Bergamo. ISBN: 978-88-88590-82-0.
- F4. Faleschini F., Pellegrino C., Brunelli K., Bassi F. (2014). “L'utilizzo di ceneri di co-combustione come additivo minerale per calcestruzzi”, *20° Convegno del Collegio dei Tecnici della Industrializzazione Edilizia (CTE)*, 6-8 Novembre 2014, Milano. ISBN: 978-88-90364-72-3.
- F5. Morbin R., Zanini M.A., Faleschini F., Pellegrino C. (2014). “Automatic procedure for fragility assessment of common existing road bridge typologies”, *2nd OpenSees Days Italia*, 10 – 11 Giugno 2015, Fisciano, Salerno. ISBN 978-88-98720-08-8.
- F6. Faleschini F., Zanini M.A., Morbin R., Pellegrino C. (2015). “A stochastic approach for assessing vulnerability of isolated bridges subjected to environmental deterioration”, *2nd OpenSeesDays Italia*, 10-11 Giugno 2015, Fisciano, Salerno. ISBN 978-88-98720-08-8.
- F7. Zanini M.A., Faleschini F., Pellegrino C. (2015). “Statistical analysis of maintenance and seismic retrofit costs for existing bridges”, *XVI ANIDIS 2015 – L’Ingegneria Sismica in Italia*, 13 – 17 Settembre 2015, L’Aquila. ISBN: 978-88-940985-6-3.
- F8. Mazzucco G., Pomaro B., Xotta G., Salomoni V., Faleschini F. (2016). “Numerical simulation of concrete materials with recycled aggregates enriched with graphene”, *GIMC-GMA 2016, XXI Convegno Italiano di Meccanica Computazionale, VIII Riunione del Gruppo Materiali AIMETA*, 27-29 giugno 2016, Lucca.
- F9. Faleschini F., Zanini M.A., Bragolusi P., Pellegrino C. (2016). “Durability of Electric Arc Furnace slag concrete”, *The New Boundaries of Structural Concrete 2016*, 29 September – 1 October 2016, Villa Orlandi, Capri Island, Italy. ISBN: 978-88-98720-14-9.
- F10. Faleschini F., Santamaria A., Pellegrino C., Gonzalez J.J. (2016) “Sustainable cement-based materials with fine EAF slag aggregates”, *The New Boundaries of Structural Concrete 2016*, 29 September – 1 October 2016, Villa Orlandi, Capri Island, Italy. ISBN: 978-88-98720-14-9.
- F11. Faleschini F., Zanini M.A., Pellegrino C. (2016). “Environmental impacts of recycled aggregate concrete”, *Italian Concrete Days – Giornate aicap 2016 – Congresso CTE*, 27-28 Ottobre 2016, Roma. ISBN: 978-88-99916-02-2.

- F12. Pellegrino C., Zanini M.A., Faleschini F., Hofer L. (2016). “Transmission length formulation for prestressed concrete elements”, *Italian Concrete Days – Giornate aicap 2016 – Congresso CTE*, 27-28 Ottobre 2016, Roma. ISBN: 978-88-99916-02-2.
- F13. Zanini M.A., Hofer L., Faleschini F., Zampieri P., Fabris N., Pellegrino C. (2016). “Evidences from the preliminary macroseismic survey of the August 24, 2016 Amatrice seismic sequence (Central Italy)”, *XXXV Convegno Nazionale Gruppo Nazionale per la Geofisica della Terra Solida (GNGTS)*, 22-24 Novembre 2016, Lecce. ISBN: 978-88-940442-7-0.
- F14. Faleschini F. (2017). “Gli aggregati riciclati o artificiali nelle Norme Tecniche per le Costruzioni”, *Workshop G4: Giornate ANPAR – Seminario: la produzione di calcestruzzi a bassa resistenza e misti cementati con aggregati riciclati e artificiali*, 19 Maggio 2017, Ravenna.
- F15. Faleschini F., Pellegrino C. (2017). “Problemi e opportunità per le scorie nere da forno elettrico”, *Workshop Slag New Life: Studio delle scorie nere EAF*, 5 Giugno 2017, Brescia.
- F16. Faleschini F., Bragolusi P., Hofer L. (2017). “Experimental and numerical study of the cyclic behavior of exterior RC beam-column joints made with recycled concrete”, *XVII Convegno ANIDIS - L'ingegneria Sismica in Italia*, 17-21 Settembre 2017, Pistoia.
- F17. Faleschini F., Gonzalez-Libreros J., Zanini M.A., Zampieri P., Pellegrino C. (2017). “Experimental Behavior of Damaged RC Beam-column Joints Repaired with FRP Composites”, *XVII Convegno ANIDIS - L'ingegneria Sismica in Italia*, 17-21 Settembre 2017, Pistoia.
- F18. Hofer L., Zanini M.A., Faleschini F., Pellegrino C. (2017). “L'analisi di profittabilità per l'identificazione dell'ottimale strategia di retrofit sismico per impianti produttivi suscettibili a business interruption”, *XVII Convegno ANIDIS - L'ingegneria Sismica in Italia*, 17-21 Settembre 2017, Pistoia.

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