CURRICULUM VITAE of COLOMBO MATTEO

Actual and past position

- Associate Professor of Structural Design (Tecnica delle Costruzioni ICAR/09) at Politecnico di Milano – Dept. Of Civil and Environmental Eng. – from October 2018 till now.
- Assistant Professor (Ricercatore a tempo indeterminato) of Structural Design (Tecnica delle Costruzioni ICAR/09) at Politecnico di Milano – Dept. Of Civil and Environmental Eng. – from June 2007 to September 2018.

Education

- MS degree in Civil Engineering at Politecnico di Milano with thesis "On the identification of the thermal damage of fibre reinforced concrete: application to a bent thin element" (In Italian) – supervisor: M. di Prisco and R. Felicetti. – Dec. 2002.
- Ph.D. in Structural Engineering at Politecnico di Milano with thesis "FRC bending behaviour: a damage model for high temperatures". Supervisors: M. di Prisco and R. Felicetti – June 2006.

National and International Conferences: chairman or participation to Organizing / Scientific Committee

- Participation to the organization of BEFIB2004 (Sixth RILEM Symposium on Fibre-reinforced Concretes (FRC)) held in Varenna - Italy 20-22 sept. 2004 - Chairmen di Prisco M., Plizzari G. – September 2004
- Member of the Origanizing Committee of the International Conference Sacomatis 2008 (RILEM Symposium on On Site Assessment of Concrete, Masonry and Timber Structures) held in Varenna - Italy 1-2 semptember 2008 - Chiarmen Binda L., di Prisco M – September 2008
- Member of the organizing committee of the International Conference PROTECT2011 held in Lugano (Switzerland) - Chairmen Cadoni E., di Prisco M. – August 2011.
- Chairman of a session in the International Conference PROTECT2011 (Performance, Protection & Strengthening of Structures under Extreme Loading) – August 2011
- Organization and participation to the Closure workshop of ACCIDENT Project for the final discussion of the results. Researcher invited to the discussion: Alva Peled (Israel), François Toutlemonde (France), Ted Krauthammer (USA) – *July 2012*
- Chairman of a session in the International Conference EUROC 2014 (Computational Modelling of Concrete and Concrete Structures) – March 2014
- Chairman of the Organizing Committee of the International Conference CONSEC 2016 (8th INTERNATIONAL CONFERENCE ON CONCRETE UNDER SEVERE CONDITIONS-ENVIRONMENT & LOADING) held at Politecnico di Milano - Polo Territoriale di Lecco - Chairmen Colombo M., di Prisco M. – September 2016, *Preface of the volume is available in [IC4].*
- Chairman of a session in the International Conference CONSEC 2016 (Eight International Conference on Concrete under Severe Conditions Environment and Loading) – September 2016
- Member of the Scientific Committee of the International Conference FRC2018 "3rd FRC International Workshop Fibre Reinforced Concrete: from Design to Structural Applications" that will be held on June 2018.
- Member of the Organizing Committee of the conference Italian Concrete Days (National Conference) that will be held in Lecco on 14-15/June 2018.

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Participation to research activities characterized by national or international collaboration

- Cooperation with precast company Magnetti Building for the definition and execution of tests on Fibre reinforced Concrete at High Temperatures, both after thermal cycle and with fast extraction from the furnace; experimental campaign aimed at the evaluation of the fire resistance of prefabricated thin roof elements. Research responsible: Prof. M. di Prisco. *Sept. – Dec. 2002*. Some results of the research are available in: [J12, IC55, IC60, NC19];
- Mechanical characterization of several fibre reinforced concretes characterized by different fibre types aimed at the definition of the uniaxial tensile constitutive law. Some of these tests have been performed within the cooperation with different companies: Trafileria Badessi, ICRS, Cosmov, Lafarge, Galbiati. *2003 – 2015*. *Some results of the research are available in:[J3, J15, IC59,NC17]*
- Participation to the structural assessment of the Lean Dam placed in the town of Albavilla. The activity involved the application of Non Destructive Tests for the material characterization – cooperation between Albavilla Municipality and Politecnico di Milano - Research responsible: Prof. M. di Prisco. *May 2003 – April 2004.*
- Participation to the mechanical characterization of glass fibre reinforce mortar for the use in lightweight façade panels. Research performed in the framework of a cooperation between the Italian precast company Zecca Prefabbricati and Politecnico di Milano – Polo Regionale di Lecco - Research responsible: Prof. M. di Prisco. *Sept. 2003 – May 2007*. *Some results of the research are available in: [IC41, IC43].*
- Participation to the National Research program "Fiber-Reinforced Concrete for Strong, Durable and Cost-Saving Structures and Infrastructures" founded by the Italian Ministry for Research (MIUR) in the framework of the founding programme PRIN 2004-2006; Involved partners: 7 Italian universities - Research responsible: M. di Prisco. *Jan. 2004 – Jan. 2006*. *Some results of the research are available in: [IC45, IC46, IC47, IC50].*
- Participation to the research activities related to the evaluation of the mechanical damage of concrete after the exposure to fire by means of non-destructive test techniques. Research founded by CTG-Italcementi Group in the framework of the European Project UPTUN - Research responsible: Roberto Felicetti. *Sept. – Dec. 2004*. *Some results of the research are available in: [J23, IC53, NC16]*
- Participation to the research activity on the “Structural optimization of roof precast elements with the used of innovative and high performance cementitious composites. Research activity performed within the cooperation between the Italian precast company Fumagalli SpA and Politecnico di Milano. Research responsible: Marco di Prisco. *Dec. 2005 – Oct. 2006.*
- Experimental investigation on the effect of fibre reinforcement on D-regions. *Jan 2005 – Dec 2012*. *Some results of the research are available in: [IC31, IC43, OC56]*
- Participation to the University strategic programme of Politecnico di Milano named GAUSS (Tunnels in Urban Areas – Services Security) related to the security of tunnels in urban areas. Investigation on fibre reinforced materials and structures exposed to high temperatures. Research responsible: Marco di Prisco. *Jan 2006 – Dec. 2008. Some results of the research are available in: [J21, IC48, IC49, IC52, IC54, IC57, IC58, NC18]*
- Participation to the preliminary experimental research on the behaviour of sprayed concrete reinforced with fibres and fabrics of different materials (steel and A/R glass); this research was developed within the cooperation between Politecnico di Milano and Saint Gobain – Vetrotex spa. Research responsible: Marco di Prisco. *Jan. 2006 – Dec. 2007. Some results of the research are available in: [J22]*.
- Participation to the research "Experimental investigation on the behaviour of glass fibre reinforced concrete" developed within the cooperation between Politecnico di Milano and

Owens Corning OCV Reinforcements. Research responsible: Marco di Prisco. *Jan. 2006 – Apr. 2008. Some results of the research are available in: [IC40, NC14, NC15]*

- Participation to the research activity on the mechanical characterization at high temperatures of mortars reinforced with carbon fibre fabrics in the framework of the cooperation between Politecnico di Milano – Polo Territoriale di Lecco and the company Mako – Shark spa. Research responsible: Marco di Prisco. *Jan. 2006. Some results of the research are available in: [IC44]*
- Participation, also with the role of assistance to the coordination, to the research Project "Accident (Advanced Cemetitious Composite In DEsign and coNstruction of safe Tunnels)" founded in the framework of the Interreg programme Italy – Switzerland (ID7629770 - Measure 2.2) – Partner involved: 2 university (Polimi and SUPSI), 3 switzerland companies and 4 italian companies. Research responsible: Marco di Prisco. *Jan. 2009 – Dec. 2012. Some results of the research are available in: [J4, J6, J10, J11, J18, J19, J20, IC14, IC15,IC22, IC25, IC26, IC29, IC31, IC35, IC36, IC37,IC38, IC39, NC6, NC8, NC11, NC12,N13];*
- Interaction and cooperation with several research institutes equipped with large shock tubes (Prof. Herbert Olivier -RWTH Aachen University, Prof. Yiannis Andreopoulos -The City College of the City University of New York and Prof. Arun Shukla University of Rhode Island) for the design of a shock tube equipment now available at Politecnico di Milano –Polo di Lecco: meetings in Milan and visits to their equipment for several details on the design of the apparatus. *June 2009-Dec. 2011. Details on shock tube design available in [J20].*
- Participation, with the role of assistance to the coordination, to the research activity on TRC (Textile Reinforced Concrete) in the framework of the cooperation between the company Gavazzi Spa and Politecnico di Milano. Research responsible: Marco di Prisco. *Jan. 2009 – today. Some results of the research are available in: [J16, J17, IC34, NC10].*
- Participation to the research activities related to the use of fibre reinforced high performance cementitious composites (HFRCC). Research in cooperation between Politecnico di Milano and BASF company. Research responsible: Marco di Prisco. *Jan. 2009 – today. Some results of the research are available in: [IC19, NC4]*.
- Design of the FRC foundation floor of the lab of Concrete Material and Structures at the Lecco Campus of Politecnico di Milano – Italia. *Oct. 2012 - Nov. 2013. The results of the activity are summarized in: [NC5]*
- Participation to the research project RELUIS (Rete dei Laboratori Universitari di Ingegneria Sismica) – research unit of Milan – for the studyof the application of advanced cementitious compisites for the structural retrofitting of existing buildings with respect to seismic loads. Research responsible: Marco di Prisco. *Jan. 2010 – today. Some results of the research are available in: [IC3, IC28]*.
- Participation to the research project "S.IN.E.ERG.I.E ATTI.V.E" for the study of ligthweigth roof elements made with advanced cementitious composites. Project fouded by the Lombardy Region together with the University Italian Ministry (MIUR) – dec. num. 7128 of 29 July 2011 – involved partners: Polimi and 2 Italian companies. Research responsible: Marco di Prisco. *Jan. 2012 – March 2015. Some results of the research are available in: [IC9, IC11, IC23, NC1].*
- Participation to the European Research Project EASEE (Envelope Approach to improve Sustainability and Energy Efficiency in existing multi-storey multi-owner residential buildings): "large project" founded by EU within the FP7 programme (FP7 2007-2013 Grant Agreement n. EeB.NMP.2011-3-285540): study of sandwich panel made of advanced cementitious composites for the energy retrofitting of existing buidings. Partners involved: 3 international research institutes and 13 international industrial partners – Coordinator: D'Apollonia S.P.A. – research responsible for Politecnico di Milano: Emilio Pizzi. Attendance to all the project meeting as reference for WP2 - Retrofitting solutions for the outer envelope for the structural investigation. Different project meetings held in: 6M-Glasgow (host by industrial partner IES

inc), 12M-Zurich (host by research partner EMPA), 18M-Genova (host by the coordinator D'Apollonia), 24M-Gdynia-Polland (host by industrial partner PRE FASADA sp.z.oo.), 30M-Milan (host by Politecnico), 36M-Madrid (host by industrial partner Ancodarq SL), 42M-Bruxelles (host by EU commission), FINAL-Milan (host by Politecnico) - *March 2012 – March 2016. Some results of the research are available in: [J5, J7, J13, IC13, IC18, IC19, IC24, NC7].*

- Participation to the research activity related to the design and testing of ligthweigth floor made with advanced cementitious composites (HPFRC and TRC). Activity developed in framework of the cooperation between Politecnico di Milano and the company Mangiavacchi Pedercini SPA. Research responsible: Marco di Prisco. *Jan. 2013 – May 2016.* Some results of the research are available in: [IC7, IC8, IC16].
- Participation to the research activity on the mechanical characterization and structural application of fibre reinforce concrete with Polypropylene fibres. Activity developed in the framework of the cooperation between Politecnico di Milano and the company Istrice. Research responsible: Marco di Prisco. *Jan. 2013 – Dec 2016.* Some results of the research are available in: [IC21]
- Participation to the activity of structural assessment of the Azzone Visconti Bridge (historical bridge of 1300) placed in Lecco. Activity developed in the framework of the cooperation between Politecnico di Milano and the Lecco Municipality. Research responsible: Marco di Prisco. *Jan. 2014 – June 2017.* Some results of the research are available in: [J1]
- Participation to the research cooperation between Politecnico di Milano (Colombo M., di Prisco M., Martinelli P.) and Universidad politecnica de Catalunya (Cavalaro S., de la Fuente A., Aguado M.) on the comparison between different experimental methods for the identification of the tensile behaviour of fibre reinforced concrete. *April 2015 – today*. *Some results of the research are available in: [IC6]*
- Participation to the experimental activities on the mechanical behaviour of GRC façade panels used in the Emirates pavillon for EXPO Milan 2015: mechanical characterization of GRC material and test on real scale panel. Research responsible: Gianpaolo Rosati
- Participation to the experimental activities on the effectiveness of corrugated pipes in the anchoring of the reinforcement of columns in foundation. Activity developed in cooperation with Halfen. SPA. *Jan 2015 – Sept. 2017.*
- Author (together with di Pirsco M, and Colombo I.G.) of the Chapter 5 of the FIB bulletin prepeared by the FIB TC 4.1 on FRC Fibre Reinforced Concrete Structure: Title of the chapter: Background of design approaches – Bullettin now under final approval. *Nov. 2011 – today. The content of the contribution refers to the following paper: [IC12, IC24, IC29, IC51]*
- Participation to the research activity on the fresh state behaviour of concrete for the optimization of tunnel formworks. Activity developed within the cooperation between Politecnico di Milano and the company CIFA. Research responsible: Marco di Prisco. *Jan. 2016 – today.*
- Partecipation to the investigation of 2D FRC elements with reference to design roles concerning the Structural Redistribution Factor. *Jan. 2013 – today. Some results of the research are available in: [J2, IC2]*
- Member of the task group on Structural Robustness of CNR (Italian Research Institute) for the development of guidelines for the design of structures considering robustness in case of accidental actions – *Jan. 2016 - today*
- Member of the Joint RILEM-fib task group Textile Reinforced Concrete - RILEM Technical Committee TRC/fib Task Group TRC (RILEM TC/fib TG TRC) - *Sept. 2017 –today*
- Associate technical investigator (Main technical investigator: Marco di Prisco) for the Public Prosecutor Office (Lecco) for the penal legal action N.3047/2016 for the collapse of the bridge

placed in Annone Brianza. Role: coordination of the experimental investigation on materials and structural elements. *Nov. 2016 – Aug. 2017.*

- Participation to the joint research activity between Politecnico di Milano (Colombo, di Prisco) KU Leuven (L. Vandewalle) and Universitat Politècnica de València (P. Serna) on the creep behaviour in tension of FRC reinforced with Polypropilene fibres: comparison between 3 testing modalities (DEWS - Polimi, Bending - UPV and Uniaxial tension - KU Leuven). At the moment the test set-up has been design and prepared; specimens have been pre-cracked and ready to start creep test*. Oct 2017 – Today*
- Contacted by COM 10 fib in charge of the Model Code 2020 for the participation to the group devoted to Chapter 7.2.4: Blast and explosions. *Dec. 2017-today.*
- Participation to the joint research activity between Politecnico di Milano (Colombo, di Prisco, Martinelli) and the NTNU of Trondheim (Norway- Terje Kanstad, Max Hendriks, Jiangpeng Shu) on the experimental, numerical and deign investigation on the safety in case of blast and fire for concrete floating tunnels (investigation aimed at the preliminary design of floating tunnels crossing two Norwegian Fiords). At the moment a preliminary definition of the experimental activities has been defined. *Jan 2018 - Today*

Responsibility of research activities

- Experimental investigation with the use of Shock tube equipment of phenolic foam based materials exposed to explosive loads – Activity in cooperation with the company IDS – Ingegneria dei Sistemi Spa (Italy) and ACELL Industries Ltd. (GB) Technical reference: Matteo Colombo. *Some results of the research are available in: [J8, IC17]*
- Mechanical characterization of wooden connection for the construction of the Japan pavillon for EXPO Milan 2015 – in cooperation with Ishimoto Architectural & Engineering Firm,. Inc. – Japan and ARUP - Japan. Research responsible: Matteo Colombo. *Jan. 2013 – May 2014.*
- Experimental investigation on steel connection for precast concrete buildings – in cooperation with Halfen SPA - Research responsible: Matteo Colombo. *Dec. 2013 – June 2014*.
- Experimental investigation on real scale sandwich panels made with sustainable concrete – activity in cooperation with Consorzio Tre within the European project SusCon – responsible for the experimental investigation: Matteo Colombo *July-Dec 2015*
- Experimental investigation for the construction of an industrial prefabricated FRC construction: mechanical characterization of materials and real scale tests on structural elements. Experimental investigation on transversal bending of FRC composite floor slab, bending behaviour of foundation slab and shear behaviour of prestressed FRC beams - in cooperation with Magnetti Sps and Impresa Finazzi – This experimental research was developed within the cooperation between Politecnico di Milano and Lauven University (Kristof De Wilder and Lucie Vandewalle)– Responsible for the Experimental Investigation: Matteo Colombo. *Jan. 2016 – today. Some results of the research are available in: [IC5]*.
- Experimental investigation on glued wood roof elements: mechanical characterization of glue adhesion and reals scal tests on beams – in cooperation with COMONEXT SCPA and FASTECS SRL. Responsible of the experimental investigation: Matteo Colombo. *March 2016 – Oct. 2016.*
- Responsible of the Politecnico di Milano Unit within the project "Failure mechanism for weak details and damage in existing concrete structures" (in Italian) founded by the Italian Ministry fo Research (MIUR) in the framework of the Programme PRIN: PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Bando 2015 (PRIN: RESEARCH PROJECTS OF RELEVANT NATIONAL INTEREST – call 2015) – National coordinator: Beatrice Belletti – University of Parma. *Oct. 2016 – today*

Editorial activities

- Reviewer of the following scientific Journals: Matarials and Structures - European Journal of Civil and Environmental Engineering (EJECE) - Structural Concrete - Construction and Building Materials - Cement and Concrete Composites - KSCE Journal of Civil Engineering
- Editor of the Volume 711 of the journal Key Engineering Materials (doi: 10.4028/www.scientific.net/KEM.711 - indexed SCOPUS, Ei Compendex) - proceeding of the International conference CONSEC2016 Concrete under Severe Conditions - Environment and Loading. Edited by: Matteo Colombo, Marco di Prisco

Activities in PhD courses

- Professor of the course Design Approaches for Impact and Blasting Actions held for : students of the II year of Master Degree in Civil Engineering for Risk Mitigation (CERM), students of the Second Level Specializing Master in Civil Eng. For Risk Mitigation and students of PhD in Structural, Seismic and Geotecnical Engineering of Politecnico di Milano for cycles XXIV and XXV.
- Co-supervisor of the PhD thesis titled: "Multilayer Precast Façade Panel: Structural Optimization for Energy Retrofitting" - PhD in Structural, Seismic and Geotecnical Engineering of Politecnico - Milano - XXVII cicle – PhD candidate: Isabella Giorgia Colombo - Supervisor: M. di Prisco, Co-supervisor: M. Colombo – *Oct. 2011 – Jan. 2015.*
- Co-supervisor of the PhD thesis titled: "On The Load Induced Thermal Strain For Plain And Steel Fiber Reinforced Concrete Subjected To Uniaxial Loading" - PhD in Structural, Seismic and Geotecnical Engineering of Politecnico - Milano - XXVIII cicle – PhD candidate: Thomaz Eduardo Teixeira Buttignol - Supervisor: M. di Prisco, Co-supervisor: M. Colombo – *Oct. 2012 – Apr. 2016.*
- Co-supervisor of the PhD thesis titled: "Fabric – Reinforced Cementitious Matrix (FRCM) composites for the retrofitting and the upgrading of existing structures" - PhD in Structural, Seismic and Geotecnical Engineering of Politecnico - Milano - XXXII cicle – PhD candidate: Marco Carlo Rampini - Supervisor: M. di Prisco, Co-supervisor: M. Colombo – *Oct. 2016 – today.*
- Member of the committee for the final exam of the PhD programme of the Dept. of Engineering and Architecture – University of Parma for PhD cycle XXIX – Exam on 22/03/2017.

Teaching/Didactic activities

Academic courses and activities

- Teaching assistant of the course "Computational mechanics and inelastic analysis of structures" (6 ECTS) for students of MS degree in Civil Eng. Of Politecnico di Milano – Professor of the course: Alberto Taliericio – A.Y. 2003 – 2004
- Teaching assistant of the course "Structural Design – part A" (6 ECTS) for students of MS degree in Building Engineering and Architecture of Politecnico di Milano – Professor of the course: Marco di Prisco – from A.Y. 2004-2005 to A.Y. 2010-2011
- Professor of the course "Structural Design Studio" (3 ECTS) for students of MS degree in Building Engineering and Architecture of Politecnico di Milano – from A.Y. 2007-2008 to A.Y. 2011-2012.
- Professor of the course "Structural design" (9 ECTS) for students of MS degree in Building Engineering and Architecture of Politecnico di Milano – from A.Y. 2011-2012 till now.
- Professor of the course "Design Approaches for Impact and Blasting Actions" (3 ECTS) for students of MS degree in Civil Engineering for Risk Mitigation (CERM) of Politecnico di Milano – from A.Y 2009-2010 to A.Y. 2012-2013.

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- Cooperation to the Course of "Structural assessment and residual bearing capacity. Fire and blast safety" (10 ECTS) for the part of "Design Approaches for Impact and Blasting Actions" (about 3 ECTS) for students of MS degree in Civil Engineering for Risk Mitigation (CERM) of Politecnico di Milano – Professor in charge of the course: Roberto Felicetti – from A.Y. 2013-2014 till now.
- Professor of the course "Structural Design Studio" (3 ECTS) for students of MS degree in Building Engineering and Architecture of Politecnico di Milano – A.Y. 2017-2018.
- Professor of the course "Design of Building Structures" (3 ECTS) for students of the Faculty of Architecture at the University of Saint Joseph – Macau (China) – A.Y. 1015 – 2016
- Professor of the course "Analysis of Structures" (3 ECTS) for students of the Faculty of Architecture at the University of Saint Joseph – Macau (China) – A.Y. 1015 – 2016
- Co-supervisor of almost 50 MS thesis in the following courses of Politecnico di Milano:
    - Structural Engineering – supervisor Marco di Prisco
    - Civil Engineering for Risk Mitigation – supervisor Marco di Prisco
    - Building Engineering and Architecture – several supervisors of different academic disciplines: assistance to students for the structural design part of the thesis.
- Supervisor of 15 thesis in the following courses of Politecnico di Milano:
    - 10 MS thesis in Civil Engineering for Risk Mitigation
    - 2 MS thesis in Building Engineering and Architecture
    - 2 Bachelor Thesis in Civil Engineering

External courses

- In charge of the course of "Reinforced concrete structures behaviour: general design criteria and damage mechanism" (in Italian) within the course "Technical management of emergency: damage detection and feasibility assessment" organized by the National Civil Protection for surveyors and architects – Monza 2015, Lecco 2015, Lecco 2016
- Invited speaker at the course "Acceptance control for materials and structural components: concrete and steel" (in Italian) organized for professional Engineers by the Board of Engineers of the Province of Lecco within the Buiding Exposition MECI held in Erba – April 2015.
- Invited speaker at the course "Structural performance of reinforced concrete existing buildings exposed to seismic actions: structural assessment, numerical prediction of the structural behaviour, retrofitting techniques and sustainability issues" (In Italian) organized for professional Engineers in Parma by EnginSoft Spa – Oct. 2016
- Invited speaker of the conference "Advanced topics in the technology and the design of reinforced and prestressed concrete structures" (in Italian) organized by ACI Italy Chapter (coordinator Prof. Pietro Gambarova) and held at the exposition GIC2016 in Piacenza. Title of the presentation: Multi-layer prefabricated panels made with advanced cementitious composites. Nov. 2016.

Administrative activities

- Responsible for the stage activities for the students of Civil Engineering of the Lecco Campus of Politecnico di Milano – from 2013 till now.
- Member of 5 comparative selections for the position of research assistance (Assegno di ricerca) at Politecnico di Milano
- Supervisor to the design of space and infrastructures and to the equipment installation for the lab of Concrete Materials and structures of the new Lecco Campus of Politecnico di Milano – from Sept. 2010 to Jan. 2014.
- Member of the comparative selection for the position of a lab technician at Politecnico di Milano – Polo Territoriale di Lecco D.D. N. 1281 del 24.04.2013 – April 2013.

- Elected member of the Board (Giunta) of the Department of Civil and Environmental Eng. – Politecnico di Milano – from March 2017 till now.

List of all the publications

<u>Papers on International Journals</u>

J1. Martinelli, P., Galli, A., Barazzetti, L., Colombo, M., Felicetti, R., Previtali, M., Roncoroni, F., Scola, M., di Prisco, M. (2017) Bearing capacity assessment of a 14th century arch bridge in Lecco (Italy), International Journal of Architectural Heritage, pp. 1-20. Article in Press, DOI: 10.1080/15583058.2017.1399482

J2. Colombo, M., Martinelli, P., di Prisco, M. (2017) On the evaluation of the structural redistribution factor in FRC design: a yield line approach, Materials and Structures/Materiaux et Constructions, 50 (1), art. no. 100, DOI: 10.1617/s11527-016-0969-3

J3. Buttignol-Teixeira Eduardo, Colombo Matteo, di Prisco Marco (2016). Long-term aging effects on tensile characterization of steel fibre reinforced concrete. STRUCTURAL CONCRETE, vol. 17, p. 1082-1093, ISSN: 1464-4177, doi: 10.1002/suco.201500149

J4. Colombo Matteo, Martinelli Paolo, di Prisco Marco (2016). On the blast resistance of high performance tunnel segments. MATERIALS AND STRUCTURES, vol. 49, p. 117-131, ISSN: 1359-5997, doi: 10.1617/s11527-014-0480-7

J5. Colombo Isabella Giorgia, Colombo Matteo, di Prisco Marco (2016). MECHANICAL CHARACTERIZATION OF TRC PRECAST FAÇADE SANDWICH PANEL FOR ENERGY RETROFITTING OF EXISTING BUILDINGS. In: (a cura di): Migliacci A. Gambarova P.G. Ronca P., STUDIES AND RESEARCHES. p. 55-74, Galazzano:IMREADY, ISBN: 9788898720125

J6. Colombo Matteo, Martinelli Paolo, Di Prisco Marco (2015). A design approach for tunnels exposed to blast and fire. STRUCTURAL CONCRETE, vol. 16, p. 262-272, ISSN: 1464-4177, doi: 10.1002/suco.201400052

J7. Colombo Isabella Giorgia, Colombo Matteo, Di Prisco Marco (2015). Bending behaviour of Textile Reinforced Concrete sandwich beams. CONSTRUCTION AND BUILDING MATERIALS, vol. 95, p. 675-685, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2015.07.169

J8. Colombo Matteo, Martinelli Paolo, Zedda Roberto, Albertelli Aldino, Marino Nicola (2015). Dynamic response and energy absorption of mineral-phenolic foam subjected to shock loading. MATERIALS & DESIGN, vol. 78, p. 63-73, ISSN: 1873-4197, doi: 10.1016/j.matdes.2015.04.014

J9. Dey V, Zani G., Colombo M., Di Prisco M., Mobasher B. (2015). Flexural impact response of textile-reinforced aerated concrete sandwich panels. MATERIALS & DESIGN, vol. 86, p. 187-197, ISSN: 0264-1275, doi: 10.1016/j.matdes.2015.07.004

J10. Alessio Caverzan, Matteo Colombo, Marco di Prisco, Barbara Rivolta (2015). High performance steel fibre reinforced concrete: residual behaviour at high temperature. MATERIALS AND STRUCTURES, vol. 48, p. 3317-3329, ISSN: 1359-5997

J11. Andreotti R., Colombo M., Guardone A., Martinelli P., Riganti G., Di Prisco M. (2015). Performance of a shock tube facility for impact response of structures. INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, vol. 72, p. 53-66, ISSN: 0020-7462, doi: 10.1016/j.ijnonlinmec.2015.02.010

J12. Colombo Matteo, Di Prisco Marco, Felicetti Roberto (2015). SFRC exposed to high temperature: Hot vs. residual characterization for thin walled elements. CEMENT & CONCRETE COMPOSITES, vol. 58, p. 81-94, ISSN: 0958-9465, doi: 10.1016/j.cemconcomp.2015.01.002

J13. Colombo Isabella Giorgia, Colombo Matteo, Di Prisco Marco (2015). Tensile behavior of textile reinforced concrete subjected to freezing-thawing cycles in un-cracked and cracked regimes. CEMENT AND CONCRETE RESEARCH, vol. 73, p. 169-183, ISSN: 0008-8846, doi: 10.1016/j.cemconres.2015.03.001

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J14. M. Colombo, P. Martinelli, M. di Prisco (2014). Validation of a Computational Approach to Predict Bursting Pressure of Scored Steel Plates. EXPERIMENTAL MECHANICS, vol. 54(9), p. 1555-1573, ISSN: 0014-4851, doi: 10.1007/s11340-014-9916-9

J15. Marco di Prisco, Matteo Colombo, Daniele Dozio (2013). Fibre-reinforced concrete in fib Model Code 2010: principles, models and test validation. STRUCTURAL CONCRETE, vol. 14, p. 342-361, ISSN: 1464-4177, doi: 10.1002/suco.201300021

J16. Isabella Giorgia Colombo, Anna Magri, Giulio Zani, Matteo Colombo, Marco di Prisco (2013). Textile Reinforced Concrete: experimental investigation on design parameters. MATERIALS AND STRUCTURES, vol. 46, p. 1933-1951, ISSN: 1359-5997, doi: 10.1617/s11527-013-0017-5

J17. Isabella Giorgia Colombo, Anna Magri, Giulio Zani, Matteo Colombo, Marco di Prisco (2013). Erratum to: Textile Reinforced Concrete: experimental investigation on design parameters. MATERIALS AND STRUCTURES, vol. 46, p. 1953-1971, ISSN: 1359-5997, doi: 10.1617/s11527-013-0023-7

J18. Colombo M., Martinelli P., di Prisco M. (2013). Layered high-performance concrete plates with granular soil under blast loads: an experimental investigation. EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol. 17, p. 1002-1025, ISSN: 1964-8189, doi: 10.1080/19648189.2013.833140

J19. M. Colombo, P. Martinelli (2012). Pressure–impulse diagrams for RC and FRC circular plates under blast loads. EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol. 16, p. 837-862, ISSN: 1964-8189

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