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Europass Curriculum Vitae

Personal information

First name / Surname	**Roberto FELICETTI**
Address	[redacted]
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E-mail	[redacted]
Nationality	[redacted]
Date of birth	[redacted]
Gender	male

Employment / Occupational field

University Professor / Researcher (Material and Structural Mechanics)

Work experience

Date	1997 →
Occupation or position held	Associate Professor (since 2002)
Main activities and responsibilities	- Teaching several courses, including Structural Design, Experimental Mechanics, Structural Fire Safety, Assessment of Existing Structures and Non-Destructive Testing (NDT) - Conducting lectures and seminars in fields like Performance Based Design for Fire Safety, Assessment of Damaged Structures, Load testing and Quality Control during Construction - Cooperating in Technical Committees on Test Methods, Structural Fire Safety and ND Testing - Member of the Scientific advisory committee of the Material and Structural Testing Lab at Politecnico di Milano (http://www.lpm.polimi.it/index.php?id=276) - Founder and director of PoliNDT, an inter-department lab for structural dignostic and monitoring - Conducting advanced research in Material and Structural Mechanics, Experimental Methods, Fire behaviour of Materials and Structures, ND Tools and Techniques
Name and address of employer	Dipartimento di Ingegneria Civile e Ambientale (DICA), Politecnico di Milano piazza Leonardo da Vinci 32, 20133 Milano
Type of business or sector	Research/Education

Date	2008 →
Occupation or position held	Research and Development Consultant
Main activities and responsibilities	- Developing equipment for material testing in Civil Engineering - Validation of projects and prototype testing - Drafting of white papers, state of the art reports and product specifications - Harmonization of testing equipment with international standards
Name and address of employer	Controls Ltd - Via Salvo d'Acquisto , 2 - 20060 Liscate (Mi) - Italy http://www.controls-group.com/eng/
Type of business or sector	Production of testing equipment for the construction industry

Education and training

Dates	11.1992 - 2.1996
Title of qualification awarded	PhD in Structural Engineering
Principal subjects covered	Structural, Material and Fire Engineering, Experimental Mechanics, Computational Mechanics
Name and type of organisation providing education and training	Politecnico di Milano
Dates	03.11.1985 - 14.07.1992
Title of qualification awarded	MS in Civil Engineering (110/110 cum laude)
Principal subjects covered	Structural and Material Engineering, Experimental Mechanics, Computational Mechanics
Name and type of organisation providing education and training	Università di Udine

Personal skills and competences

Mother tongue(s): **Italian**

Other language(s): **English**

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
Italian	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
English	B2	Independent user	C1	Proficient user	B2	Independent user	C1	Proficient user	B2	Independent user

Technical skills and competences

- good knowledge of Material and Structural Mechanics and Structural Design
- good knowledge of performance based design and modelling for Fire Safety
- good knowledge of Concrete Technology and High Performance Cementitious Composites
- good knowledge of instruments and tools for Experimental Mechanics and Non-Destructive Testing
- good knowledge of sensors and electronics for measurement and data acquisition
- intermediate knowledge of control systems for actuators, motors and lab furnaces
- intermediate knowledge of optical methods for strain measurement (moiré gratings, DIC, etc.)
- intermediate knowledge of metalworking for design and maintenance of experimental setups
- intermediate knowledge of robotics for test automation and extensive monitoring of structures

Computer skills and competences

- good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™)
- good knowledge of graphics and design applications (PhotoShop™, Grapher™, AutoCAD™)
- intermediate knowledge of math applications (MathLab™, MathCad™)
- intermediate knowledge of FEM software (Abaqus, Sap2000, Diana, Castem3000)
- good command of LabVIEW for data acquisition, motion control, sound and image processing
- intermediate command of micro-controller programming via Arduino IDE

all acquired through voluntary activity

Other skills and competences

manual skill
music listening (jazz)
photography
cycling

Driving licence: Category B

Annexes

List of publications and technical recommendations produced in the framework of RILEM Committees
Brief description of some research products for material assessment and testing

Faculty positions

Member of the Faculty Committee of the PhD Programme in "Structural, Seismic and Geotechnical Engineering", Department of Structural Engineering, Politecnico di Milano (since 2007).

Head of the Concrete Division of the Material Testing Laboratory (Laboratorio Prove Materiali - www.lpm.polimi.it) at Politecnico di Milano (2004-1012). This group counts 2 specialized technicians and a MS Engineer, who support the research activities of the Structural Engineering Department in the field of cementitious composites. The experimental tests cover the whole range from material characterization to structural testing, including on-site testing and monitoring, qualification of precast members and construction products. Concerning the external activities, the division collects 150-200 k€ per year by performing material quality control, load testing and Non Destructive assessment of structures.
Member of the Scientific Committee of the Material Testing Laboratory, starting from 2013.

Professional Societies

Member of the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM), 2004 – Present.

The Milan Order of Engineers, Member, 1998 – Present

Technical Committees memberships

In close connection with the research activities is the participation to the following technical committees:

RILEM TC 256-SPF *"Spalling of concrete due to fire: testing and modelling"*
The objective of this recently launched working group is to explore the possibility of using innovative techniques to characterize concrete spalling in fire. The potential of monitoring methods like image correlation, pulse echo, acoustic emission and radar will be studied. Recommendations will be established on how to measure the water content of specimen or the pore gas pressure. Finally, recommendations will be given on how quantifying concrete spalling during fire and after cooling. This committee prolongs the activity **TC 227-HPB** *"Physical Properties and behaviour of High-Performance Concrete at high temperature"* (2008-1013), focused on the characterization of thermo-physical properties and on the modelling of explosive spalling. The former group **RILEM TC 200-HTC** *"Mechanical Concrete Properties at High Temperature - Modelling and Applications"* (secretary from 2000 till the closure in 2008) finalized a series of technical recommendations and state of the art reports on the mechanical characterization of concrete exposed to high temperature. These documents are a recognized reference towards a standardization of the experimental methods in this field.

RILEM TC 207-INR *"Interpretation of NDT results and assessment of RC structures" (2006-2011).* The objective of this working group was to discuss the potential of both established and innovative Non-Destructive Techniques in the inspection of some typical faults in R/C structures. The final product is the State of the Art Report "Non-destructive assessment of concrete structures: reliability and limits of single and combined techniques" (Springer, 2012).
On these topics the international conference "On-site Assessment of Concrete, Masonry and Timber Structures" (SACoMaTiS 08 - Varenna, September 1-2) has been organized.

The **Fib Task Group 4.3.2** *"Fire design of concrete structures - Structural Behaviour"* of the Fédération Internationale du Béton. The main product of this group is the Fib bulettin n. 46 "Fire design of concrete structures - Structural behaviour and assessment". The contribution to this document is the chapter "Expertise and assessment of materials and structures after fire" on the residual post-fire behaviour of concrete structures. During the activity, the Task Group promoted three workshops, one of which was held at Politecnico di Milano.
Presently the activity is being continued in the framework of task **FIB Task Group 4.3.5** *"Fire Resistance of Concrete Tunnels"*. The goal is draft a guideline document for the analysis and design of concrete tunnels submitted to fire.

The Working Group **"Metodi di Prova"** (Test Methods) of **Unicemento**, which is in charge of revising and drafting the Italian recommendations concerning the experimental testing on cementitious materials (UNI e UNI EN Standards). In 2006 the group drafted a proposal for a European Standard on the determination of the secant elastic modulus of concrete. The draft (prEN 12390-13) is now under approval by CEN Task Group TG 8.

Organization of international conferences

The following conferences have been organized, concerning the research fields of fibre-reinforced concrete, fire behaviour of concrete structures and assessment and monitoring of existing structures:

Sixth International RILEM Symposium on Fibre-Reinforced Concrete BEFIB 2004, Varenna (Lecco), September 20-22, 2004 (scientific secretary, member of the organizing committee and editor of the conference proceedings).

Fib Task Group 4.3 Workshop *"Fire Design of Concrete Structures: What now? What next?"*, Milano, December 2-4, 2004 (member of the organizing committee and editor of the workshop proceedings).

RILEM Conference *"On site Assessment of Concrete, Masonry and Timber Structures"* SACoMaTiS 2008, Varenna (Lecco), September 1-2, 2008 (scientific secretary, member of the organizing committee and editor of the conference proceedings). The conference was a part of the annual RILEM Week 2008 (September 3-4).

Teaching activity

The teaching activity has been carried out partly in the Architectural faculty of pertinence and partly in the Civil Engineering faculty at Politecnico di Milano. It has been focused mainly on *Structural Design* (undergraduate and graduate classes) and *Design Laboratories* (graduate classes). In relatively recent times, more specific classes (in English) have been activated in close connection to the research activity. The basic undergraduate courses deal with structural safety and robustness, design of steel, R/C, timber members and their connections. Also the relations between structures and architecture are discussed, from structural concept to detailing and integration with the partitions and the plant works.
In the *Structural Design* graduate classes the design principles specific to the above mentioned materials and their implementation in the framework of Limit States Design and the Eurocodes are tackled. The didactic laboratories mainly deal with the factual application of these concepts and their integration with the technological issues in building design.
In the course of studies *Design and Requalification of Existing Buildings* the topics of static interpretation of existing buildings, diagnosis of materials and structures, strengthening and integration with new members are also central subjects.
In close connection with the activity of the Concrete Lab is the class *"Execution and control problems"* within the second-level Master courses "Design of Reinforced Concrete Structures", "Structures and Technologies in Architecture" and "Structures and Plant Works for Sustainable Environmental Development", Politecnico di Milano (2002-2009).
More related to the research activity is the course *"Fire Resistance of Materials and Structures"* (MS in Civil Engineering - Lecco Campus - in English), which includes fire modelling, thermal analysis of structural members and ultimate capacity of concrete, steel and timber structures submitted to fire.
Starting from 2009, the course *"Structural assessment and residual bearing capacity"* has been activated (MS in Civil Engineering - Lecco Campus - in English). This course is mostly focused on the implementation of Non-Destructive Techniques on structures impaired by ageing, earthquakes, fires and blasts.
As a part of the teaching activity is the tutoring of BS theses (about 10), MS and master theses (about 50) and tutoring or co-tutoring of PhD theses (3) in the research fields listed in the following section. In recent times one PhD thesis was tutored on explosive spalling of High-Performance Concrete structures exposed to fire. Presently another PhD research work is being tutored on inspection techniques for wrought iron ties in historical buildings.

As concerns the dissemination of research studies, a number of seminars was given to PhD students and professionals. To be cited among them are:

The course *"Effect of heat on concrete"* (CISM - Udine, June 9-13, 2003, in English), where the aspects concerning concrete fracture mechanics at high temperature were discussed.

The course *"Diagnosis for the Preservation of existing structures"* (Politecnico di Milano, February 6-10, 2012), where the aspects concerning concrete structures was discussed.

The PhD course *"Experimental methods in material and structural mechanics"* (Politecnico di Milano, April-May, 2015)

Several classes on Structural Fire Safety Design and Structural Assessment for professional councils, technical bodies and industrial associations (Engineers and Architects Councils of Milano, Bergamo, Aosta and Parma, National Fire Brigade, Construction Industry Council, etc.)

Invited seminars in different foreign universities and research centers (Columbia University, Imperial College, BAM Berlin, CSTB Paris, EPF Lausanne, LiRGeC Nantes).

Research activity

The scientific activity is mainly focused on the constitutive and structural behaviour of reinforced concrete, with particular reference to special concretes (high strength, lightweight, fibre-reinforced, self-compacting, etc.), precast members (thin shells, panels, anchors), to the effect of severe loading and environmental conditions (fire, fatigue, earthquake) and to the assessment of in-situ strength and the residual capacity of damaged structures (fire and other deteriorating agents).

The research activity has been carried out in the framework of several National- (Cofin, Prin, Reluis) and European- (CEC/PECO, HITECO, UPTUN, FP7) research projects and in fulfilment of a number of research contracts (Bekaert, Controls, ENEA, Italcementi, Larco-Astori, Bertolini).

Four projects were related to as many as many visits to foreign institutions:

- Imperial College of London (Spring 1998), for developing a test setup for direct tension testing of concrete samples at high temperature;
- Columbia University, New York (Sept 1999 - Feb 2000), to perform a test programme on the toughening of plain cement slurries with basalt fibre;
- BAM, Berlin (Feb 2009), to startup a research line at Politecnico di Milano on advanced ultrasonic methods and data migration for concrete structures;
- CSTB (Nov 2009 - Feb 2010), to design innovative test methods for characterization of the sensitivity to explosive spalling of High Performance Concrete.

The main research topics are summarized in the following.

Constitutive and structural behaviour of high-performance concrete exposed to high temperature

This subject, launched in the early nineties with reference to high- and ultra-high strength concretes, has been deepened under the different aspects of the thermally induced mechanical decay (compression, tension, fracture) and their implications on the structural behaviour (bending, shear, punching, local mechanisms, etc.). In more recent times the study has been extended to other special concrete mixes (lightweight, fibre reinforced, self-compacting, recycled aggregates), to the thermal properties (thermal diffusivity) and to a deeper insight on the influence of the fire scenario on the global response of a structure (indirect actions and second order effects).
In close connection with these studies is the participation to Technical Committees working in this field and the teaching activity in the course "Fire Resistance of Materials and Structures".

Constitutive and structural behaviour of fibre reinforced concrete

The research in this field was initially focused on the use of steel fibre in industrial floors, with particular attention to bending, punching, fatigue and the interaction with soil.
More recently, the possible application of steel fibre as a replacement for the transversal reinforcement in thin-webbed precast roofing element has been investigated. One important limitation restraining a broad application of this material is the uncertainty on the factual dispersion of fibre in the mix. The topic of on-site control of the content and orientation of the reinforcing filaments is a new field of investigation that has been undertaken.
Although not directly connected to the structural response, the role of polymeric fibre in controlling the rise of pore pressure due to fire has been recently studied.

Experimental and numerical analysis of precast members

A number of loading tests were performed on full scale precast members, either in the framework of research projects or as a part of the regular certification activity of the Material Testing Laboratory at Politecnico di Milano. These tests formed the base for a series of studies on the non-linear behaviour of thin-webbed precast members, focused on bending, shear, torsion and the local diffusion phenomena occurring at the supports.
Recently, the new theme of connections in precast buildings and their role on the seismic response of the structure has been started. In more details, the connection between roof members and supporting beams, columns and foundation, cladding panels and columns are being studied, with special attention to the possible brittle failure of the connections under the effect of horizontal loads.

Non-destructive assessment of deterioration phenomena in construction materials

The work on this subject was started in the beginning of the career and it has been fostered in the last years. The first step dealt with traditional masonry buildings, leading to the proposal of a method for assessing the mechanical response of mortar joints.
The topic of non-destructive testing has been resumed in recent years, after considering the inadequacy of the traditional techniques in revealing the residual capacity of R/C structures surviving a fire. The study was conducted in the twofold direction of adapting the existing techniques and of developing new methods particularly suited for this problem. A simplified approach to concrete colorimetry and the monitoring of the drilling and coring resistance are examples of these latter achievements.
Another subject of interest is the durability of concrete structures and the planning of maintenance interventions. Within this topic, a quick measurement technique for the carbonation depth has been recently patented and developed into a commercial product (www.carbontest.it).
Another subject of interest is the detection of delaminations over large areas (industrial pavements, plasterings, tiles, etc.). A technique based on the impact acoustics method has been coordinated with different local positioning systems, allowing to draft complete damage maps in relatively little time. A more advanced approach based on the development of robotic systems is the object of the present research in this field.

In 2012 the spin-off company Di.Mo.Re. (www.dimore-strutture.com) was co-founded with a group of ten colleagues. The main objective of the company is to disseminate the innovative inspection techniques developed in the framework of past research projects and to provide high level expert advise in the fields of seismic engineering and structural assessment.

List of Publications - May 2015

A) Theses

1. Felicetti R., (1992), *"Indagine teorica e sperimentale sui pioli per connessione soletta-muratura"*, Tesi di Laurea, Facoltà di Ingegneria, Università di Udine, 196 p.
2. Felicetti R. (1996), *"In tema di proprietà meccaniche residue di calcestruzzi silicei ad alta resistenza esposti ad alta temperatura"*, Tesi di Dottorato per il conseguimento del titolo di Dottore di Ricerca, Dottorato di Ricerca in Ingegneria delle Strutture (VIII ciclo), Politecnico di Milano, 257 p.

B) International Journals

1. Felicetti R., Gattesco N. and Giuriani, E. (1997), *"Local Phenomena Around a Steel Dowel Embedded in a Stone Masonry Wall"*, Materials and Structures, Vol. 30, p.238-246.
2. di Prisco M. and Felicetti R. (1997), *"Some results on punching shear in plain and fibre-reinforced micro-concrete slabs"*, Magazine of Concrete Research, V. 49, N. 180, p.201-219.
3. Felicetti R. and Gattesco N. (1998), *"A penetration test to study the mechanical response of mortar in ancient masonry building"*, Materials and Structures, V.31, p.350-356.
4. Felicetti R. and Gambarova P.G. (1998),*"The effects of high temperature on the residual compressive strength of high-strength siliceous concretes"*, ACI - Materials Journal, V.95, N.4, July-August, p.395-406.
5. Felicetti R., Gambarova P.G. e Semiglia M. (1999), *"Residual capacity of HSC thermally damaged deep beams"*, ASCE - Journal of Structural Engineering, V.125, N.3, p.319-327.
6. Felicetti R. (2006), *"The Drilling Resistance Test for the Assessment of Fire Damaged Concrete"*, Journal of Cement and Concrete Composites, V.28, p.321-329.
7. Colombo M. and Felicetti R. (2007), *"New NDT techniques for the assessment of fire-damaged concrete structures"*, Fire Safety Journal, V.42, pp. 461-472.
8. Felicetti R., Gambarova P.G. and Meda A. (2009), *"Residual behaviour of steel rebars and R/C sections after a fire"*, Construction and Building Materials, V.23, N.12, p.3546-3555.
9. Colombo M, di Prisco M. and Felicetti R. (2009), *"Mechanical properties of Steel Fibre Reinforced Concrete exposed at high temperatures"*, Materials and Structures, V.43, p.475-491, DOI 10.1617/s11527-009-9504-0.
10. Felicetti R. (2010), *"Assessment of an industrial pavement via the impact acoustic method"*, European Journal of Environmental and Civil Engineering, V.14, p.427-439, DOI 10.3166/EJECE.14.427-439.
11. Felicetti R. (2013), *"Assessment Methods of Fire Damages in Concrete Tunnel Linings"*, Fire Technology, V.49 (2), p.509-529, DOI 10.1007s10694-011-0229-6.
12. Ferrara L., Felicetti R., Toniolo G. and Zenti C. (2011), *"Friction dissipative devices for cladding panels in precast buildings. An experimental investigation"*, European Journal of Environmental and Civil Engineering, V.15, pp.1319-1338
13. P. Bamonte, R. Felicetti, P.G. Gambarova, A. Nafarieh (2011), *"On the fire scenario in road tunnels: a comparison between zone and field models"*, Applied Mechanics and Materials, V.82, p.764-769, DOI:10.4028/www.scientific.net/AMM.82.764
14. Felicetti R. (2012), *"Assessment of the deteriorated concrete cover by combined while-drilling techniques"*, ASCE Journal of Infrastructure Systems, V. 18, No. 1, p.25-33. DOI: 10.1061/(ASCE)IS.1943-555X.0000049
15. Bamonte P. and Felicetti R. (2012), "*High temperature behaviour of concrete in tension*", Structural Engineering International, special issue on Structural Fire Engineering, V. 4, p. 493-499.
16. Bamonte P. and Felicetti R. (2012), *"Fire scenario and structural behaviour of underground parking lots exposed to fire"*, Journal of Structural Fire Engineering, V. 3, p. 199-213.
17. Felicetti R., Gambarova P.G. and Bamonte P. (2013) *"Thermal and mechanical properties of light-weight concrete exposed to high temperature"*, Fire and Materials, V. 37, p. 200-216.
18. Annerel E., Taerwe L., Mercib B., Jansenc D., Bamonte P. and Felicetti R. (2013), *"Thermo-mechanical analysis of an underground car park structure exposed to fire"*, Fire Safety Journal, V. 57, p.96-106.

19. Toropovs N., Lo Monte F. ,Wyrzykowski M., Weber B., Sahmenko G., Vontobel P., Felicetti R., Lura P. (2015), "Real-time measurements of temperature, pressure and moisture profiles in High-Performance Concrete exposed to high temperatures during neutron radiography imaging", Cement and Concrete Research, V. 2 (68). p.166-173.
20. Colombo M., di Prisco M., Felicetti R. (2015), *"SFRC exposed to high temperature: hot vs. residual characterization for thin walled elements"*, Cement and Concrete Composites, V. 1.

C) Technical recommendations on peer reviewed international journals

1. RILEM TC 129-MHT - Schneider U. (chairman) Felicetti R. (secretary), (2000), *"Part 4: Tensile strength for service and accident conditions"*, Materials and Structures, V.33, May, p. 219-223.
2. RILEM TC 129-MHT - Schneider U. (chairman) Felicetti R. (secretary), (2000), *"Part 9: Shrinkage for service and accident conditions"*, Materials and Structures, V.33, May, p. 224-228.
3. RILEM TC 129-MHT - Schneider U. (chairman) Felicetti R. (secretary), (2004), *"Modulus of Elasticity for Service and Accident Conditions"*, Materials and Structures, V.37, pp.139-144.
4. RILEM TC 200-HTC - Schneider U. (chairman) Felicetti R. (secretary), (2005), *"Part 10: Restraint stress"*, Materials and Structures, V.38, pp.913-919.
5. RILEM TC 200-HTC - Schneider U. (chairman) Felicetti R. (secretary), (2007), *"Recommendation of RILEM TC 200-HTC:Part 11: Relaxation"*, Materials and Structures, V.40, pp.449-458.
6. RILEM TC 200-HTC - Schneider U. (chairman) Felicetti R. (secretary), (2007), *"Recommendation of RILEM TC 200-HTCPart 1: Introduction: General presentation"*, Materials and Structures, V.40, pp.841-853.
7. RILEM TC 200-HTC - Schneider U. (chairman) Felicetti R. (secretary), (2007), *"Recommendation of RILEM TC 200-HTCPart 2: Stress-strain relation"*, Materials and Structures, V.40, pp.855-864.

D) Italian journals

1. Felicetti R. e Gambarova P.G. (2005), *"Calcestruzzi di oggi. La sfida dell'alta temperatura e dell'incendio"*, L'Edilizia - Building and Construction for Engineers, V.14/140, pp.26-30.
2. Felicetti R. (2009), *"Strutture in calcestruzzo armato: la valutazione del danno da incendio"*, L'Edilizia - Building and Construction for Engineers, V.17/159, pp.18-24.
3. Felicetti R. (2009), *"Strumenti per l'analisi del degrado nelle strutture in cls armato"*, inbeton, n.58, p.46-55.
4. Felicetti R. (2010), *"Indagini sui distacchi superficiali col metodo dell'acustica di impatto"*, inbeton, n.61, p.44-50
5. Felicetti R. (2011), *"Scenari di incendio e comportamento residuale delle strutture"*, Il Giornale dell'Ingegnere, V.15-16, p. 7-9
6. Bellanova M., Carboni M., Felicetti R. e Gianneo A. (2015), *"Individuazione di difetti sulle catene storiche metalliche"*, Il giornale delle prove non distruttive monitoraggio diagnostica, p.49 -55

E) Edited books

1. di Prisco M., Felicetti R. and Plizzari G.A. (2004) - Proceedings of the Sixth International RILEM Symposium on Fibre-Reinforced Concrete BEFIB 2004, RILEM Publications, 2 vol., ISBN: 2-912143-51-9.
2. Gambarova P.G., Felicetti R., Meda A. and Riva P. (2005) - Proceedings Fib Task Group 4.3 Workshop *"Fire Design of Concrete Structures: What now? What next? "*- Milan, Dec. 2-4, 2004, P.G. Gambarova, R. Felicetti, A. Meda and P. Riva (Eds.), Starrylink, Brescia, ISBN: 88-88847-91-X
3. Binda L., di Prisco M. and Felicetti R. (2008) - Proceedings RILEM Conference "on Site Assessment of Concrete, Masonry and Timber Structures" (SACoMaTiS 08), Varenna, 1-2 Sett, 2008, RILEM Publications, 2 vol., ISBN: 978-2-35158-061-5.
4. Gambarova P. e Felicetti R. (2009), "Progetto delle strutture resistenti al fuoco", Hoepli (Milano). Translated and updated edition of "Structural design for fire safety" by A.H. Buchanan, 436 p.

F) Contributions to books

1. Felicetti R. e Rosati G. (1994), *"Sulla resistenza residua a trazione e flessione del calcestruzzo fessurato"*, Studi e Ricerche, Scuola di Specializzazione in Costruzioni in C.A. F.lli Pesenti, Vol. 15, p.131-145.

2. Felicetti R., Gambarova P.G. e Volpe M. (1995), *"In tema di comportamento termo-meccanico di calcestruzzi ad alta resistenza soggetti ad alta temperatura"*, Studi e Ricerche, Scuola di Specializzazione in Costruzioni in C.A. F.lli Pesenti, Vol.16, p.59-92.
3. di Prisco M., Felicetti R. and Gambarova P.G. (1997), *"On the evaluation of the characteristic length in High Strength Concrete"*, High Strength Concrete - ASCE, Ed. by Azizinamini a., Darwin D. and French C., Kona (Hawaii), p.377-390.
4. Felicetti R., and Gambarova, P.G. (1998), *"On the residual mechanical properties of siliceous high-strength concretes subjected to a high temperature cycle"*, in "Materialmodelle und Methoden zur wirklichkeitsnahen Berechnung von Beton-, Stahlbeton- und Spannbetonbauteilen", Special Volume in honour of Prof. Mehlhorn's 60th Anniversary, ed. by F. Blaschke, G. Gunther and J. Kolleger, Kassel University, Kassel (Germany), p.39-46.
5. Felicetti R., Gambarova P.G. (1998) *"On the Residual Properties of High Performance Siliceous Concrete Exposed to High-Temperature"*, Special Volume in honour of Z.P. Bazant's 60th Anniversary, Prague, March 27-28, Ed. Hermes (Paris), p.167-186.
6. Felicetti R., Gambarova P.G. (1999) *"On the ultimate behavior of thermally-damaged R/C deep beams: high performance versus ordinary concrete"*, Spec. Vol in honour of H.-W. Reinhardt's 60th Anniversary, Nov 1999, Ed. ibidem-Verlag (Stuttgart), p.297-312.
7. di Prisco M., Failla C., Felicetti R. and Iorio F. (2000) *"HSFRC precast roof elements: tests and design considerations"*, Studi e Ricerche - Studies and Researches, V.21, Italcementi S.p.a (Italy), pp. 55-93.
8. Felicetti R. and Gambarova P.G. (2003), *"Heat in concrete: special issues in material testing"*, Studi e Ricerche - Studies and Researches, V.24, Italcementi S.p.a (Italy), 121-138.
9. Felicetti R., Gambarova P.G. and Meda A. (2003), "L'alta temperatura nel HPC", in 'La meccanica della frattura nel calcestruzzo ad alte prestazioni', M. di Prisco and G. Plizzari (Eds.), Starrylink, Brescia, pp.119-136.
10. di Prisco M., Felicetti R., Iorio F. (2003), "*Il comportamento flessionale di elementi sottili in HPC* ", in 'La meccanica della frattura nel calcestruzzo ad alte prestazioni', M. di Prisco and G. Plizzari (Eds.), Starrylink, Brescia, pp.157-182.
11. Bamonte P., Felicetti R. and Gambarova P.G. (2004), *"Heat in concrete: structural behaviour and failure modes - part 1: R/C sections and 2-d members"*, Studi e Ricerche - Studies and Researches, V.25, Italcementi S.p.a (Italy), p.1-29.
12. Bamonte P., Felicetti R., Gambarova P.G., Billi R., Busnelli F., Cangiano and Quaglia M. (2006), *"Thermo-mechanical characterization of concrete mixes suitable for the rehabilitation of fire-damaged tunnel linings, part I: compressive strength and elastic modulus"*, Studi e ricerche - Studies and researches, V.26, Starrylink (Brescia - Italy), p.233-284.
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l) Patents

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