

MERCLEDI 14 / 09						
REGISTRAZIONE						
08:00-09:00	Keynote Lecture: <b>W. Salvatore (ANIDIS) - Progetto e controllo della conoscenza per la classificazione e valutazione dei ponti esistenti</b> - (Chair: F. Braga)					
09:00-09:45	Keynote Lecture: <b>A. Sextos (ASSISI) - Hybrid, Low-Cost, Seismic Isolation Solutions for Low-Rise Buildings in Developing Countries: Experimental Results and Challenges Faced</b> - (Chair: P. Clemente)					
09:45-10:30	Intervento tecnico ( <b>Somma International</b> ) - <i>I dispositivi per l'isolamento sismico - Esempi di applicazioni non convenzionali</i>					
10:30-10:45	Intervento tecnico ( <b>STA DATA</b> ) - <i>Un approccio integrato per il calcolo delle strutture in muratura</i>					
10:45-11:00	Coffee Break					
11:00-11:30	<b>SG04 (Aula 1)</b>	<b>SS12 (Aula 2)</b>	<b>SS02 (Aula 3)</b>	<b>SS18 (Aula 4)</b>	<b>SG13 (Aula 5)</b>	<b>SS06 (Aula 6)</b>
<b>Chairs:</b>	<b>P. Morandi, C. Amadio</b>	<b>M. Latour, S. Pagnotta</b>	<b>G. Brandonisio, A. De Luca</b>	<b>A. Kanyilmaz, M.A. Marra, F. Morelli, A. Natali</b>	<b>G. Magenes, S. Lagomarsino</b>	<b>E. Lenticchia, R. Ceravolo</b>
11:30-13:00	Simplified assessment of the seismic vulnerability of small earth dams <i>Andrea Ciancimino, Renato Maria Cosentini, Francesco Figura, Sebastiano Foti</i>	Seismic behaviour of steel Moment Resisting Frames with traditional and innovative connections <i>Sabatino Di Benedetto, Antonella Bianca Francavilla, Massimo Latour, Vincenzo Piluso, Gianvittorio Rizzano</i>	Stability issues for elastomeric bearings: analytical formulations compared to experimental results <i>Laura Giovanna Guidi, Giuseppe Brandonisio, Antonello De Luca</i>	How the behavior of beam-to-column joints affects the seismic response of steel rack structures <i>Alessandro Mei, Maurizio Orlando, Luca Salvatori</i>	Dynamic identification of the tabernacle of the church of Santa Maria Maggiore in Spello, Italy <i>Matteo Castellani, Nicola Cavalagli, Enrique Garcia-Macias, Filippo Ubertini, Riccardo Vetturini</i>	The use of Stick-IT model in loss assessment at the large scale <i>Marco Gaetani d'Aragona, Maria Polese, Marco Di Ludovico, Andrea Prata</i>
	Seismic fragility assessment of Balvano (Potenza, Italy) pre and post 1980 Irpinia's earthquake <i>Antonio Sandoli, Gaetana Pacella, Bruno Calderoni, Giuseppe Brandonisio, Gian Piero Lignola, Andrea Prata</i>	Welded section defence by LRPD devices <i>Salvatore Benfratello, Luigi Palizzolo, Santa Vazzano</i>	Hybrid strategy for the seismic retrofitting of existing buildings through Base Isolation System <i>Giuseppe Brandonisio, Laura Giovanna Guidi, Guido Camarda, Paola Sorrentino, Antonello De Luca</i>	Experimental validation of dissipative reduced-section thin walled diagonals for seismic-resistant Automated Rack Supported Warehouses <i>Agnese Natali, Francesco Morelli</i>	Seismic vulnerability analysis and structural rehabilitation of a historical masonry tower <i>Massimiliano Ferraioli, Angelo Lavino, Donato Abruzzese, Alberto Mandara, Alberto Maria Avossa</i>	Using commercial UHF-RFID wireless tags to detect structural damage <i>Amedeo Gregori, Chiara Castora, Antonio Di Natale, Micaela Mercuri, Emidio Di Giampaolo</i>
	Push 'o ver: a pushover test program on an existing brickwork construction <i>Antonio Boccamazzo, Giustino Di Emidio, Giuseppe Diotallevi, Allen Dudine, Andrea Dall'Asta, Fabio Micozzi, Michele Morici, Domenico Liberatore, Luigi Sorrentino, Giacomo Buffarini, Paolo Clemente</i>	Preliminary study of a seismic-resilient steel pilot building equipped with low-damage connections <i>Elena Elettore, Sabatino Di Benedetto, Antonella Bianca Francavilla, Massimo Latour, Rosario Montuori, Elide Nistri, Vincenzo Piluso, Gianvittorio Rizzano, Mario D'Aniello, Raffaele Landolfo, Roberto Tartaglia, Fabio Freddi</i>	Design spectra to be used in Base Isolation Design in light of recent strong motion records <i>Paola Sorrentino, Laura Giovanna Guidi, Giuseppe Brandonisio, Antonio De Luca</i>	Experimental validation of plastic ovalization strategy for seismic-resistant Automated Rack Supported Warehouses <i>Agnese Natali, Francesco Morelli, Walter Salvatore, Dimitrios Tsarpalis, Dimitrios Vamvakos</i>	Ambient vibration test and model updating of the bell tower of St. Michele Arcangelo Cathedral in Casertavecchia, Italy <i>Mattia Zizi, Corrado Chisari, Jafar Rouhi, Angelo Lavino, Gianfranco De Matteis</i>	Investigation of a butterfly-arch stress-ribbon pedestrian bridge under ambient excitation: dynamic identification, FE modelling and parametric optimization <i>Leqia He, Chiara Castora, Angelo Aloisio, Zhiyong Zhang, Giuseppe Carlo Marano, Amedeo Gregori, Changgen Deng, Bruno Briseghella</i>
	Simplified seismic vulnerability analysis of historic residential buildings with fragility curves <i>Giuliana Cardani, Elsa Garavaglia, Grigor Anajeliu</i>	Innovative connections for steel-concrete-trussed beams: a patented solution <i>Alessia Monaco, Salvatore Pagnotta, Piero Colajanni, Lidia La Mendola</i>	Seismic vulnerability of gravity-load design R.C. buildings of 1960s in low seismic areas <i>Paola Sorrentino, Laura Giovanna Guidi, Giuseppe Brandonisio, Antonio De Luca</i>	Seismic Performance of Double-Depth Automated Steel Rack Supported Warehouses in Low Seismicity Regions <i>Marius Pinkawa, Cristian Vulcu, Benno Hoffmeister</i>	Seismic enhancement of masonry arches by means of fibre-reinforced mortar <i>Corrado Chisari, Francesco Masi, Massimo Latour, Gianvittorio Rizzano, Gianfranco De Matteis</i>	Structural health monitoring of an elevated water tank through a computer vision approach <i>Marioluigia Sangirardi, Stefano De Santis, Vittorio Altomare, Pietro Meriggi, Gianmarco De Felice</i>
	Assessment of the effect of seismic sequences on steel X-CBF for industrial buildings <i>Luca Bomben, Marco Fasan, Claudia Amadio</i>	Experimental characterization of friction properties of materials for innovative beam-to-column dissipative connection for low-damage RC structures <i>Salvatore Pagnotta, Alessia Monaco, Piero Colajanni, Lidia La Mendola</i>	Seismic retrofit of an existing important building of the 60's through a hybrid strategy <i>Giuseppe Brandonisio, Laura Giovanna Guidi, Davide Michelino, Paola Sorrentino, Antonello De Luca</i>		The seismic restoration of Palazzo San Giacomo in Russi <i>Marco Peroni, Nicolò Minguzzi</i>	First hypothesis for Optimized Monitoring Strategy through Ambient Vibrations in historic buildings <i>Giuliana Cardani, Alberto Barontini, Salvatore Russo, Paolo Laurenci</i>
The quality of connections between masonry and decks and the effects of earthquake <i>Carmento Miozzi, Franco Braga, Raniero Fabrizi, Giuseppe Rossi, Massimo Sessa</i>	Seismic behavior of hybrid coupled walls equipped with self-centering connections <i>Majtaba Farahia, Fabio Freddi, Massimo Latour</i>				Correlation of local and global structural damage for SHM <i>Alessandro Lubrano Lobianco, Marta Del Zoppo, Marco Di Ludovico</i>	

Aula Magna "G. Agnelli"

13:00-14:00	Pranzo (MIXTO)					
14:00-14:45	Keynote Lecture: <b>E. Chatzi (ANIDIS) - The importance of engineering models for informed monitoring of structures</b> - (Chair: A. Dall'Asta)					
14:45-15:00	Intervento tecnico ( <b>Fibre Net</b> ) - <i>Nuovi approcci numerici e progettuali nel consolidamento di edifici di grandi dimensioni</i>					

A.M.

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	<b>SS01 (Aula 1)</b>	<b>SG06 (Aula 2)</b>	<b>SG05 (Aula 3)</b>	<b>SS13 (Aula 4)</b>	<b>SG13 (Aula 5)</b>	<b>SS10 (Aula 6)</b>
<b>Chairs:</b>	<b>A. Monaco, M. Alforno</b>	<b>E. Marino, A. Dall'Asta</b>	<b>C. Pellegrino, G. De Matteis</b>	<b>A. Cardellicchio, V. Renò, I. Venanzi</b>	<b>L. Sorrentino, G. De Felice</b>	<b>C. Del Vecchio, M. Di Ludovico</b>
15:00-16:30	Seismic assessment of masonry vaults by means of an advanced hybrid FEM-DEM modeling strategy <i>Angela Ferrante, Frédéric Dubois, Pierre Morenon</i>	A simple but effective capacity model for check and design of beam-column joints in RC seismic buildings <i>Francesca Barbagallo, Melina Bosco, Aurelio Ghersi, Edoardo Michele Marina, Francesco Sciaccia</i>	Self-centering seismic retrofit of RC buildings using shape memory alloy braces <i>Massimiliano Ferraioli, Antonio Concilio, Carmine Moliterno</i>	Application of unsupervised learning for post-earthquake assessment of the Z24 benchmark bridge <i>Valentina Gaglioli, Iliana Venanzi, Filippo Ubertini</i>	Effectiveness of traditional strengthening measures on historic masonry buildings: the seismic performance of Palazzo Comunale in Camerino after 2016-2017 seismic sequence <i>Romino Sisti, Marco Di Ludovico, Andrea Prata</i>	Simplified tools for the risk assessment of existing buildings <i>Gerard J. O'Reilly, Al Moayed Bellah Nafeh, Davit Shahnazaryan</i>
	Settlement of masonry barrel vaults: an experimental and numerical study <i>Vieri Cardinali, Barbara Pintucchi, Marco Tanganelli, Francesco Trovatielli</i>	Beam-column joint nomogram: A simple and fast-to-use tool to evaluate the joint integrity in RC structures <i>Vanni Nicoletti, Sandra Carbonari, Fabrizio Gara</i>	Seismic retrofit of a RC building using metallic yielding dampers: a case study. <i>Massimiliano Ferraioli, Gennaro Di Laura, Pasquale Crisci, Gianfranco Laezza, Angelo Lavino, Carolina Bellantoni</i>	A machine learning framework to estimate a simple seismic vulnerability index from a photograph: the VULMA project <i>Angelo Cardellicchio, Sergio Ruggieri, Valeria Leggieri, Giuseppina Uva</i>	Shake table testing of a low-impact technology for the seismic protection of stone masonry <i>Gianmarco De Felice, Omar AlShawa, Stefano De Santis, Domenico Liberatore, Ivan Roselli, Marioluigia Sangirardi, Luigien Sorrentino</i>	Effectiveness of seismic mitigation strategies for the Italian residential masonry built heritage <i>Pietro Carpanese, Veronica Fallador, Francesca da Porto</i>
	Composite Reinforced Mortar (CRM) and Fiber-Reinforced Cementitious Matrix (FRCM) for the seismic protection of masonry vaults <i>Ingrid Boem, Natalino Gattesco</i>	Comparative analysis of code-compliant seismic assessment methods through nonlinear static analyses and demand spectrum: N2 Method vs. Capacity Spectrum Method <i>Simone D'Amore, Livio Pedone, Stefano Pamparin</i>	An Integrated Risk Management System for Road Infrastructures: A Focus on Seismic Risk and Network Performance <i>Emanuele Renzi, Stefano Zampino, Giuseppe Palermo, Galileo Tamasi, Fabiana Di Nucci, Vincenzo Porretto, Luca Germanese</i>	Using transfer learning technique to define seismic vulnerability of existing buildings through mechanical models <i>Sergio Ruggieri, Angelo Cardellicchio, Giuseppina Uva</i>	Collapse mechanisms of churches: typical recurrence rates and damage levels from the analysis of field data after the 2012 Emilia earthquake <i>Claudio Chesì, Briselda Calliku, Alice Festa, Anna Maria Basso Bert, Stefano Barbò</i>	Simplified framework for economic convenience of base isolation as seismic retrofit solution for existing RC buildings <i>Andrea Natale, Ciro Del Vecchio, Tobia Zordan, Marco Di Ludovico</i>
	Seismic in-plane displacement capacity of masonry barrel vaults: the role of constructive aspects <i>Marco Alforno, Fiammetta Venuti, Alessia Monaco, Chiara Calderini</i>	Design tool for gypsum-sheathed cold formed steel panels under seismic action <i>Davide Ferrigato, Fabio Minghini, Antonella Salomone, Nerio Tullini</i>	Development and study of seismic risk judgment system for buildings <i>Itsuro Yoshizawa</i>	Improving building inventory with a machine learning approach: application in southern Italy <i>G. Tocchi, M. Polese, A. Proto</i>	Vulnerability analysis aimed at the safeguard of the Ererouyk basilica in Armenia <i>Lorenza Pettrini, Paola Bonetti, Gaiane Casnati</i>	Observational loss database of typological precast RC buildings damaged after the 2012 Emilia earthquake <i>Lucia Praticò, Marco Bovo, Marco Savoia</i>
	Fracturing and collapse behavior of masonry vaulted structures: a lattice-discrete approach <i>Micaela Mercuri, Madura Pathirage, Amedeo Gregori, Gianluca Cusatis</i>	A methodology for the calibration of partial safety factors accounting for knowledge level, in pushover-based seismic assessment of URM buildings according to the new draft of Eurocode 8 <i>Stefano Bracchi, Maria Rota, Andrea Penna</i>	Il progetto integrato per la ricostruzione post-sisma di Castelluccio di Norcia: procedimenti, tecniche, attuazione <i>Gianluca Fogatti, Stefano Nodessi Proietti, Fulvio Saccodato, Nicola Alemanno, Maurizio Rotondi, Marco Mezzi, Paolo Verducci, Monia Bovicchi, Catia Ciavaglia, Luisa Cincini, Monica Finotto, Eleonora Gabbarelli, Francesco Marosi, Stefano Di Carlo</i>	Automatic identification of residential building features using machine learning techniques <i>Carpanese Pietro, Donà Marco, da Porto Francesco</i>		Italian National Seismic Prevention Plan: cost analyses for risk reduction policies <i>Elena Speranza, Giuseppina De Martino, Chiara Conte, Mauro Dolce</i>
			On the Use of Satellite-Based Interferometry for Structural Monitoring of Bridge Portfolios <i>Andrea Nettis, Vincenzo Massimi, Raffaele Nutricato, Davide Oscar Nitti, Sergio Samarelli, Giuseppina Uva</i>			

16:30-17:00	Coffee Break					
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	<b>SG14 (Aula 1)</b>	<b>SG06 (Aula 2)</b>	<b>SS07 (Aula 3)</b>	<b>SS13 (Aula 4)</b>	<b>SS03 (Aula 5)</b>	<b>SS10 (Aula 6)</b>
<b>Chairs:</b>	<b>C. Demartino, S. Caprilli</b>	<b>G. Fabbrocino, S. Cattari</b>	<b>L. Restuccia, F. Faleschini</b>	<b>S. Ruggieri, G. Uva</b>	<b>B. Calderoni, A. Sandoli</b>	<b>C. Del Vecchio, M. Di Ludovico</b>
17:00-18:15	Research on structure using carbon fiber reinforced plastic <i>Momoka Aoki, Osamu Takahashi</i>	A risk-based definition of the confidence factor for the seismic assessment of URM existing buildings <i>Sofia Giusto, Serena Cattari, Sergio Lagomarsino</i>	Structural foamed concrete: preliminary studies for applications in seismic areas <i>Devil Falliano, Luciana Restuccia, Alessio Vinci, Giuseppe Andrea Ferro</i>	META-FORMA: an automated procedure for urban scale seismic vulnerability assessment of masonry aggregates <i>Valeria Leggieri, Sergio Ruggieri, Giuseppe Zogari, Giuseppina Uva</i>	Open issues on non-linear modelling for seismic assessment of existing masonry buildings <i>Gaetana Pacella, Antonio Sandoli, Bruno Calderoni, Giuseppe Brandonisio</i>	Reconstruction process after 2009 Abruzzo earthquake outside and inside historical centers: funding models and strengthening costs <i>Antonio Mannella, Giuseppina De Martino, Marco Di Ludovico, Elena Speranza, Salvatore Giuseppe Duillo Provenzano, Raffaele Fico, Mauro Dolce, Andrea Prata</i>
	Seismic behaviour of steel modular buildings: numerical analysis and comparisons between different design solutions <i>Annarita Palmiotta, Stefano Garbellini, Lorenzo Audisio, Roselena Sullo, Michele D'Amato, Rosario Gliottoli</i>	NSE seismic demand characterization: the case of a Spanish RC residential building <i>Laura Navas-Sánchez, Francesca Ferretti, Marco Savoia, Carlos Gamboa-Canté, Jaime Cervera Bravo</i>	Seismic reliability of RC frames casted with EAF concretes <i>Mariano Angelo Zanini, Flora Faleschini, Klajdi Toska</i>	The research project "CHARMING PISTOIA": an integrated HBIM project for preservation and maintenance of heritage structures <i>S. Manchetti, G. Bartoli, M. Betti, L. Facchini, E. Rougier, G. Zini</i>	Implications of the axial force on seismic behavior of masonry spandrels <i>Antonio Sandoli, Bruno Calderoni, Gian Piero Lignola, Andrea Prata</i>	Observed damage and empirical predictive model of the school building heritage of the Marche region <i>Laura Gioiella, Michele Morici, Andrea Dall'Asta</i>
	Application of CLT prefabricated exoskeleton for an integrated renovation of existing buildings and continuous structural monitoring <i>J. Zanni a. S. Castella, M. Bosio, C. Passania, S. Labba, A. Marina, A. Belleria, E. Giuriani, G. Brumano a. C. Abrami, S. Santini, G. Venturini, A.L. Marchetti</i>	Some reflections on the seismic upgrading and regeneration of existing buildings in the Italian regulatory framework <i>Antonio Mannella, Mariangela De Vita, Giovanni Fabbrocino</i>	Dynamic behavior of structural beams made of innovative smart concrete <i>Hasan Borke Birgin, Antonella D'Alessandro, Filippo Ubertini</i>	Using machine learning approaches to perform defect detection of existing bridges <i>Sergio Ruggieri, Angelo Cardellicchio, Andrea Nettis, Vito Renò, Giuseppina Uva</i>		Italian National Seismic Prevention Plan: cost analyses for risk reduction policies <i>Giuseppina De Martino, Paola Marotta, Marco Di Ludovico, Sergio Iannella, Vincenzo Albanese, Andrea Prata</i>
			An experimental study on smart-earth samples for structural applications <i>Andrea Meoni, Antonella D'Alessandro, Federico Oyedje Falope, Angelo Marcello Tarantini, Filippo Ubertini</i>	A new tailored developed software for the risk classification of bridges according to the Italian guidelines <i>Agnese Natali, Vincenzo Messina, Walter Salvatore, Vincenzo Gervasi, Davide Anzalone, Andrea Canciani, Fabio Severino</i>		Post-earthquake reconstruction of residential buildings in historical centers: damage indices of structural aggregates <i>Giuseppina De Martino, Marco Di Ludovico, Antonio Mannella, Elena Speranza, Raffaele Fico, Salvatore Provenzano, Andrea Prata, Mauro Dolce</i>
				Artificial Intelligence tools to predict the level of defectiveness of existing bridges <i>Agnese Natali, Milind G. Padalkar, Vincenzo Messina, Walter Salvatore, Pietro Moreno, Alessio Del Bue, Carlos Beltrán-González</i>		Preliminary considerations on the rocking behaviour of foundations in precast industrial buildings <i>Marius Eteme Minkada, Marco Accalli, Andrea Belleri, Nerio Tullini, Daniela Giretti, Fabio Minghini</i>