

MARTEDI 13 / 09						
REGISTRAZIONE						
08:00-09:00	Keynote Lecture: F. Braga (ANIDIS) - <i>La Evoluzione Delle Norme Tecniche Per Le Costruzioni</i> - (Chair: G. Ferro)					
09:45-10:30	Keynote Lecture: M. Doglioni (ASSISI) - <i>Origin of Seismicity in Italy as a Clue for Seismic Hazard</i> - (Chair: P. Clemente)					
10:30-10:45	Intervento Tecnico (Tecnopolo d'Abruzzo) - <i>La sensoristica MEMS e il machine learning a servizio dell'ingegneria strutturale e del monitoraggio sismico in genere: la soluzione è basata sui sistemi SHM Board</i>					
10:45-11:00	Intervento Tecnico (Edil CAM Sistemi Srl) - <i>L'evoluzione dell'approccio al miglioramento sismico delle strutture esistenti mediante la sperimentazione e l'innovazione della tecnologia CAM®</i>					
11:00-11:30	Coffee Break					
Chairs:	SG04 (Aula 1)	SG07 (Aula 2)	SS05 (Aula 3)	SS14 (Aula 4)	SS17 (Aula 5)	SG12 (Aula 6)
	G. Quaranta, C. Demartino	G.A. Ferro, S. Caprilli	P. Castaldo, E. Miceli, G. Amendola	A. Formisano, G. Milani	L. Faconni, M. Leone	M. Savoia, A. Saetta
	Numerical evaluation of period elongation for the assessment of seismic damage and usability of reinforced concrete	The application of external post-tensioning system to a damage masonry arch	Full-scale experimental tests on unbonded fiber reinforced elastomeric isolators under bidirectional excitation	Investigation of architectural typological parameters influencing seismic vulnerability of masonry buildings in historical centres: the case of Puglia.	Confinement of masonry columns through FRG: experimental results and analytical prediction	Seismic risk assessment of a new RC-framed skin technology for integrated retrofitting interventions on existing buildings
	<i>Mariano Di Domenico, Paolo Ricci, Gerardo Verderame</i>	<i>Paola Zampieri, Riccardo Piazzone, Riccardo Ferranti, Carlo Pellegrino</i>	<i>Dario De Domenico, Paolo Longo, Daniele Losanno, Natale Maugeri, Giuseppe Riccardi, Nicolò Vaiana</i>	<i>Chiara Tosto, Valeria Leggieri, Sergio Ruggieri, Giuseppina Lva</i>	<i>Mattero Canestri, Francesca Ferretti, Claudio Mazzotti</i>	<i>Diego Alejandro Taliedo, Rita Federico, Irene Rocco, Luca Pozz, Marco Savoia, Anna Saetta</i>
	Seismic vulnerability assessment of RC buildings at compartment scale: the use of CARTIS form	Seismic behavior and nonlinear analysis of Hybrid Coupled Shear Walls	Bridges seismically isolated by DCFP devices: a study on how the main parameters of the problem affect the seismic performance of the system	Seismic assessment of typical historical masonry churches in the Banat region, Romania - Part I	FRM retrofitting techniques for masonry walls: a literature review and some laboratory tests	A CAT bond-based coverage scheme proposal for Italy
	<i>Francesca Pasquale, Luisa Berto, Paolo Faccio, Anna Saetta, Diego Alejandro Taliedo</i>	<i>Francesco Morelli, Agnese Natali, Gabriele Poggi</i>	<i>Guglielmo Amendola, Paolo Castaldo</i>	<i>Anna Lo Monaco, Nicola Grillando, Iasmina Onescu, Mihai Fofiu, Francesco Clementi, Michele D'Amato, Antonio Formisano, Gabriele Milani, Marius Mosaroca</i>	<i>Raffaele Cucuzza, Marco Domaneschi, Guido Camata, Giuseppe Carlo Marano, Antonio Formisano e Domenico Brigante</i>	<i>Lorenzo Hofer, Mariano Angelo Zanini, Paolo Gardani</i>
	Fragility curves for residential unreinforced masonry buildings prone to local mechanisms: the case of the historical center of Sora	Fragility curves of a gravity load designed r.c. hospital building: a case study	A physical model for dynamic analysis of structures equipped with variable curvature frictional isolators	Seismic assessment of typical historical masonry churches in the Banat region, Romania - Part II	Compressive Strength of Masonry Confined by FRM systems: Assessment of Existing Models and New Proposals	Seismic Reinforcement of Historic Brickwork Walls using Titanium Rods
	<i>Valentina Cima, Valentina Tomei, Ernesto Grande, Maura Imbimbo</i>	<i>Alessandra Gubano, Alessandro Mazelli</i>	<i>Gaspar Auad, José Luis Almazán</i>	<i>Anna Lo Monaco, Nicola Grillando, Iasmina Onescu, Mihai Fofiu, Francesco Clementi, Michele D'Amato, Antonio Formisano, Gabriele Milani, Marius Mosaroca</i>	<i>Annalisa Napoli, Roberto Realfonzo</i>	<i>Fitsum Haile, Marco Corradi, Antonio Borri, Jill Adkins</i>
	Vulnerability of archetype masonry buildings of the Abruzzo region defined through the CARTIS form	A new approach to estimate the yield strength of lead rubber bearing	Seismic reliability analysis of isolated deck bridges using friction pendulum device	A macro-element approach for the seismic analysis of monumental buildings	Assessment of the FRM in-plane behavior in masonry retrofit applications	Fragility and Loss Assessment of Reinforced Concrete Residential Buildings Under Construction
	<i>Giorgia Cianchino, Giulio Cecca, Davide Rapone, Ylenia Di Lallo, Maria Giovanna Masciotta, Giuseppe Brando</i>	<i>Masoud Pourmasoud, Alan R. L. Park, Iman Hajirasouli, James Lim, Amirmahmoud Behzadi</i>	<i>Diego Gino, Paolo Castaldo</i>	<i>Marieluca Malena, Mario Lorello, Gianmarco de Felice</i>	<i>Michele Angiolilli, Amedeo Gregori</i>	<i>Marco Terenzi, Alberto Basaglia, Enrico Spacone</i>
	Adaptive knowledge-based seismic risk assessment of existing reinforced concrete buildings using the SLAMA method	On the combined effects of proportional damping and damage in vibrating structures	The "direct-five step procedure for existing buildings": development and first application	Post-earthquake continuous dynamic monitoring of the twin bellies of the Cathedral of Santa Maria Annunziata of Camerino, Italy	Experimental investigation of FRM under shear loading	In-plane seismic performance of an innovative steel modular reinforcement system for URM walls
	<i>Livio Pedone, Simona Bianchi, Stefano Pampanin</i>	<i>Fabrizio Iezzi, Antonio Miglietta, Vincenzo Sepe, Claudio Valente</i>	<i>Matteo Marra, Michele Palermo, Stefano Silvestri</i>	<i>Gianluca Standoli, Francesco Clementi, Carmelo Gentile, Stefano Lenzi</i>	<i>Rebecca Fugger, Sara Fares, Pietro Meriggi, Francesca Nerilli, Sonia Marfia, Elio Sacco, Gianmarco de Felice</i>	<i>Paolo Marandì, Luca Albanesi, Nicolò Damiani, Carlo Manzini, Guido Magenes</i>
	Influence of bond-slip on numerical fragility curves of RC structural columns	Preliminary assessment of "PreWEC" systems made by cross-laminated timber panels and steel columns	Experimental validation of fast design rules for curved surface slider devices through the hybrid simulation technique	Vulnerability of historical masonry buildings: pros and cons of being in aggregate	Influence of spatially heterogeneous deterioration patterns on strength and ductility of corroded reinforced concrete bridge piers	Intrados CFRM strengthening of masonry arches
	<i>Lorenzo Audisio, Michele D'Amato, Rosario Gigliotti</i>	<i>Andrea Belleri, Marius Eterme Minkado, Dario Baldassarre, Cristiano Loss</i>	<i>Marco Furinghetti, Alberto Pavese</i>	<i>Michele Angiolilli, Serena Cattari, Sergio Lagomarsino, Silvia Pinasco</i>	<i>Davide Bernardini, Franco Braga, Francesca Buttarazzi, Donatello Cardone, Paolo Di Re, Placido Migliorino, Achille Poolone, Daniela Ruta</i>	<i>Paolo Zampieri, Davide Santinon, Riccardo Piazzone, Lorenzo Hofer, Klajdi Toska, Flora Faleschini, Carlo Pellegrino, Domenico Ricci, Francesco Iodice, Andrea Vecchi, Franco Iacobini</i>
13:00-14:00	Pranzo (MIXTO)					
14:00-14:45	Keynote Lecture: M. Constantinou (ASSISI) - <i>Testing of Seismic Isolation Hardware: Significance, Scaling, Similarity and Performance-Based Specifications</i> (Chair: G. Cimellaro)					
14:45-15:00	Intervento tecnico (Kistler) - <i>An innovative measure architecture to monitor civil infrastructures</i>					

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MARTEDI 13 / 09						
Chairs:	SG04 (Aula 1)	SG07 (Aula 2)	SS05 (Aula 3)	SS04 (Aula 4)	SS09 (Aula 5)	SS06 (Aula 6)
	P. Ricci, L. La Mendola	G. Uva, L. Sorrentino	P. Castaldo, E. Miceli, G. Amendola	C. Casapulla, L. Giresini	F. Di Trapani, G. Quaranta	R. Ceravolo, E. Lenticchia
	Development and Analysis of an Italian Masonry Building Portfolio Using Post-Earthquake Damage Observations	Push 'o ver: numerical simulation of the Castel di Lama pushover test through a force-based equivalent frame model	Influence of the pier-abutment-deck interaction on the seismic response of bridges equipped with FPS	Macro vs Micro Limit Analysis models for the seismic assessment of in-plane masonry walls made with quasi-periodic bond types	Reliability Based Design Optimization of Damped Outrigger Timber Structure using Deep Learning Enhanced Probability Density Evolution Method	A dynamically validated model verified by drone photos of the masonry bridge of the XIX century
	<i>Giovanni Tonda, Daniele Perrone, Ricardo Monteiro, Maria Antonietta Aiello</i>	<i>Daniela Adessi, Domenico Liberatore, Luigi Sorrentino, Allen Dudine, Andrea Dall'Asta, Michele Marici, Antonio Boccamazzo, Oreste De Simone, Giacomo Buffarini, Paolo Clemente</i>	<i>Elena Miceli, Luca Giordano</i>	<i>Simon Szabó, Marco Francesco Funari, Bora Pulatsu, Anastasios I. Giovanidis, Shaghayegh Karimzadeh, Paula B. Lourenço</i>	<i>Sourav Das, Solomon Tesfamariam</i>	<i>Francesca Cucumazzo, Dara Foti, Maria Francesca Sabbà, Remo Pavone</i>
	An innovative framework for risk assessment of the secondary elements of industrial plants	Cyclic response of post-tensioned low damage timber walls with dissipative devices: numerical prediction	Design and experimental assessment of a novel damper with high endurance to seismic loads curvature	Dynamical assessment of the performance factor "Q" for the masonry wall under the out of plane seismic action	Automated Mapping of the roof damage in historic buildings in seismic areas with UAV photogrammetry	Towards the Seismic Monitoring of a Monumental Structure in Mixed Masonry-RC
	<i>Gianluca Quinci, Fabrizio Paolacci, Michalis Fragiadakis</i>	<i>Valentina Tomei, Maria Zucconi, Barbara Ferracuti</i>	<i>Virginia Quaglino, Eleonora Bruschi, Carlo Pettorosso, Mauro Sartori</i>	<i>Simona Coccia, Mario Como</i>	<i>Giuliana Cardani, Fausto Fiorillo, Luca Perretti</i>	<i>Goetano Miraglia, Erica Lenticchia, Giuseppe Luca, Rosario Ceravolo</i>
	Empirically based approaches for the derivation of fragility curves of Italian RC building typologies	Experimental investigation on the lateral performance of CLT shear walls connected to perpendicular walls	Numerical investigation on the seismic performance of a RC framed building equipped with a novel Prestressed Lead Damper with Straight Shaft	Comparison of the effects of traditional and innovative tie-rods in reducing the seismic vulnerability of church façades: the case of San Francesco in Mirandola (Italy)	Machine-learning-enhanced variable-angle truss model to predict the shear capacity of RC elements with transverse reinforcement	Building typological classification and earthquake damage assessment in Switzerland
	<i>Carlo Del Gaudio, Annalisa Rosti, Andrea Penna, Paolo Ricci, Maria Rota, Gerardo Mario Verderame</i>	<i>Elisabetta Maria Ruggeri, Giuseppe D'Arenzo, Denise Li Cavoli, Rosario Davide Cottonaro, Marinella Fossetti</i>	<i>Eleonora Bruschi, Virginia Quaglino</i>	<i>Omar AlShawa, Linda Giresini, Claudia Casapulla</i>	<i>Dario De Domenico, Giuseppe Quaranta, Qingcong Zeng, Giorgio Monti</i>	<i>Annalisa Casciato, Linda Scussolini, Giorgia Coletta, Alireza Khodaverdian, Rosario Ceravolo, Pierino Lestuzzi</i>
	Influence of structural-geometric features on seismic vulnerability of masonry buildings based on post-earthquake damage data	Critical discussion of DC2 design rules for MR Frames in the framework of the prEN1998 draft	3D numerical characterization of dissipative connection system and retrofit of prefabricated existing rc shed	FRP grouted anchors contribution to the masonry walls OOP response through the kinematic approach of limit analysis	A new GA-based framework based on Expected Annual Loss for optimizing seismic retrofitting in reinforced concrete frame structures	Structural Health Monitoring and Dynamic Identification of the Historical Town-Hall of Borgo Val di Taro
	<i>Santa Anna Scalo, Carlo Del Gaudio, Gerardo Mario Verderame</i>	<i>Maria Maglio, Rosario Montuori, Elide Nasti, Vincenzo Pilluso</i>	<i>Carlo Pettorosso, Virginia Quaglino, Luca Mari, Eleonora Bruschi</i>	<i>Alessandra Maione, Claudia Casapulla, Marco Di Ludovico, Andrea Prota, Francesca Ceroni</i>	<i>Antonio Pio Sberna, Fabio Di Trapani, Giuseppe Carlo Marano</i>	<i>Elena Michellini, Beatrice Belletti, Flavio Bocchi, Antonio B. Costantino, Lorenzo Ferrari, Daniele Ferretti, Simona Patrizi, Daniele Spina</i>
	Securing the church of Madonna del Sole during the emergency phase of 2016 earthquake: interoperability of different actors as an instrument for reducing seismic risk of damaged built heritage	The E-DVA method for multi-modal pushover analysis and dominant modes	Comparative seismic performance of a moment frame equipped with Lateral Impact Resilient Double Concave Frictional devices	Empirical fragility curves for macro-elements and single mechanisms of churches damaged during the 2016-2017 Central Italy seismic sequence	A novel genetic algorithm-based optimization framework for minimizing seismic retrofitting costs in existing masonry structures	Surrogate-based Bayesian model updating of an historical masonry tower
	<i>Enrica Brusa, Claudia Chesì, Stefano Della Torre</i>	<i>Olivier Lherminier, Silvano Erlicher, Miquel Huguet, Maxime Barakat</i>	<i>Gaspar Auada, Paolo Castaldo, José L. Almazán</i>	<i>Romina Sisti, Luca Umberto Argiento, Claudia Casapulla, Francesca Ceroni, Andrea Prota</i>	<i>Fabio Di Trapani, Antonio Pio Sberna, Gabriele Bertagnoli, Giuseppe Carlo Marano</i>	<i>Federico Ponsi, Elisa Bassoli, Ghita Esami Varzaneh, Loris Vincenzi</i>
	Fragility curves for reinforced concrete frames characterized by different regularity	Reflections on the necessity or not of interventions for the adaptation of existing bridges	Nonlinear seismic analysis of RC framed structures with horizontal and vertical base-isolation	Pushover analysis of rocking façades in masonry churches: the role of friction and geometry in identifying homogeneous classes of vulnerability	Effect of pile isolation on the seismic demand reduction of integral abutment bridges	Impact of the model error on the neural network-based damage detection
	<i>Giovanni Smailardo, Marco Fasan, Claudio Amadio</i>	<i>Michele Frizzarin, Paolo Franchetti</i>	<i>Fabio Mazza</i>	<i>Luca Umberto Argiento, Elham Mousavian, Claudia Casapulla, Francesca Ceroni</i>	<i>Angelo Aloisio, Alessandro Contento, Junqing Xue, Massimo Fragiaccamo, Bruno Briseghello</i>	<i>Federico Ponsi, Giorgia Ghirelli, Elisa Bassoli, Ghita Esami Varzaneh, Loris Vincenzi</i>
16:30-17:00	Coffee Break					
MARTEDI 13 / 09						
Chairs:	SG04 (Aula 1)	-	SS08 (Aula 3)	SS04 (Aula 4)	SS09 (Aula 5)	SS06 (Aula 6)
	P. Colajanni, B. Ferracuti		A. De Luca, T. Trombetti	O. Alshawa, L. Giresini	C. Demartino, R. Gentile	P.F. Giordano, E. Lenticchia,
	Seismic risk maps for the Italian residential building stock for a sustainable risk reduction and management		Analysis of the collapse behavior of the masonry Medici tower resorting on a hybrid discrete-kinematic methodology	Effect of the vertical component of ground motion on a rubble masonry wall model	Natural Language Processing (NLP) for Seismic Exposure Modeling	A simplified procedure to assess uncertainties in the estimation of the rigid motion of isolated buildings based on InSAR monitoring
	<i>Mariano Angelo Zanini, Lorenzo Hofer, Flora Faleschini, Carlo Pellegrino</i>		<i>Micaela Mercuri, Madura Pathirage, Amedeo Gregori, Gianluca Cusatis</i>	<i>Omar AlShawa, Domenico Liberatore, Luigi Sorrentino</i>	<i>Justin Schembri, Roberto Gentile, Carmine Galasso</i>	<i>Elisa Bassoli, Francesca Grassi, Ghita Esami Varzaneh, Francesco Mancini, Loris Vincenzi</i>
	Scores: An Algorithm for Records Selection to Employ in Seismic Risk and Resilience Analysis		A proposal for evaluation of seismic vulnerability of complex masonry building with additions: the case of Zoological Station Anton Dohrn	Effect of ground-motion sequences on a unreinforced masonry wall restrained by an elastoplastic tie-rod	Seismic upgrading of RC structures through an optimization procedure based on Genetic Algorithm	Wavelet level decomposition of the seismic response of a historic masonry bell tower with and without simulated structural damage
	<i>Fabrizio Paolacci, Renato Giannini, Gianluca Quinci</i>		<i>Paola Sorrentino, Giuseppe Brandonisio, Antonio De Luca</i>	<i>Omar AlShawa, Fabrizio Mollaioli, Laura Liberatore, Domenico Liberatore, Luigi Sorrentino</i>	<i>Francesca Nigro, Roberto Falcone, Enzo Martinelli</i>	<i>Marco Civera, Cecilia Surace</i>
	Loss Assessment of Non-Ductile RC Buildings Accounting for Bidirectional Ground Motion		Proposal of a simple expression for predicting the horizontal capacity of masonry walls	Pull-out tests on injected steel anchors in a masonry tuff wall	Gaussian process-based surrogate modelling for direct loss-based seismic design of base-isolated structures	Satellite Interferometric Data for Seismic Damage Assessment
	<i>Maria Zucconi, Marco Bova, Barbara Ferracuti</i>		<i>Paola Sorrentino, Giuseppe Brandonisio, Rosario Pece</i>	<i>Ciro Del Vecchio, Giuseppe Maddaloni, Maria Rosaria Pece</i>	<i>Diego Suarez, Giorgio Rubini, Roberto Gentile, Carmine Galasso</i>	<i>Pier Francesco Giordano, Gaetano Miraglia, Erica Lenticchia, Rosario Ceravolo, Maria Pina Limongelli</i>
	First hypotheses of regionalisation of the fragility curves for masonry buildings in small municipalities of western Sicily		Complex monumental buildings. Definition of complexities and structural implications	Innovative Method for Masonry Columns Confinement	Machine learning-based derivation of seismic fragility curves for RC bridge piers: preliminary results	Application of Multi-Temporal InSAR (MT-InSAR) for structural monitoring: the case study of Scrovegni Chapel in Padova
	<i>Piero Colajanni, Jennifer D'Anna, Lidia La Mendola, Salvatore Pagnotta</i>		<i>Paola Sorrentino, Giuseppe Brandonisio, Antonio De Luca</i>	<i>Alberto Viskovic, Claudia Valente, Alice Di Primo, Rossella Brescia</i>	<i>Xuguang Wang, Alessandra Fiore, Cristoforo Demartino, Giuseppe Quaranta, Giorgio Monti</i>	<i>Amedeo Caprina, Gianmarco Bonaldo, Filippo Lorenzoni, Francesca Da Porto</i>
19:30-24:00	CENA DI GALA (Museo del Risorgimento)					