

PROGRAMMA XIX Convegno ANIDIS - L'ingegneria sismica in Italia

DOMENICA 11 / 09

18:00-19:30 Welcome Cocktail (Sala delle Colonne @ Castello del Valentino)

LUNEDI 12 / 09

08:00-09:00 REGISTRAZIONE

09:00-09:30 Saluti istituzionali e apertura del convegno

09:30-10.15 Keynote Lecture: **M. Sarkisian (ANIDIS) - Eliminating Seismic Risk to Structures through Invention** - (Chair: G. Ferro)

10.15-11.00 Keynote Lecture: **Mustafa Erdik (ASSISI) - Seismic Isolation of Structures in Near Fault Conditions** - (Chair: G. Cimellaro)

11:00-11:30 Coffee Break

	SG04 (Aula 1)	SG07 (Aula 2)	SG09 (Aula 3)	SG11 (Aula 4)	SS17 (Aula 5)	SG12 (Aula 6)
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Chairs:	F. Parisi, L. Ragni	M. Mezzina, P.P. Rossi	C. Mazzotti, G. Quaranta	F. Di Trapani, A. Pavese	L. Faccioni, M. Leone	R. Gigliotti, D. Liberatore
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11:30-13:00	<p>A fast procedure for the assessment of multi-source consequences of earthquakes on buildings</p> <p><i>Alessandro Fulco, Fabrizio Comodini, Marco Mezzi</i></p>	<p>A reduced order model for nonlinear time history seismic analyses of elasto-plastic 3D frame structures</p> <p><i>Domenico Magisano, Antonella Corrado, Antonio Madeo, Giovanni Garcea</i></p>	<p>Effect of the backfill material in the seismic response of multi-span masonry arch bridges under seismic loading</p> <p><i>Mattia Zizi, Corrado Chisari, Gianfranco De Matteis</i></p>	<p>Experimental study on the in-plane response of cast-in-situ reinforced concrete sandwich walls under combined vertical and horizontal load</p> <p><i>Paolino Casese, Carlos Riascos, Carlo Rainieri, Giuseppina De Luca, Alberto Pavese, Antonio Bonati</i></p>	<p>State of art on bond between FRCM systems and masonry/concrete substrate: database analysis and new design models</p> <p><i>Aiello Maria Antonietta, Giuseppe Bramato, Francesca Ceroni, Lidia La Mendola, Giovanni Minafo, Marianovella Leone, Maria Concetta Oddo</i></p>	<p>Seismic vulnerability assessment and retrofit design of Italian public buildings</p> <p><i>Rossella Siano, Alaedine Fatnassi, Florencia Victoria De Maio, Paola Bassa, Marcello Cademartori</i></p>
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11:30-13:00	<p>Empirical fragility curves for masonry buildings struck by the 2016 Central Italy earthquake</p> <p><i>Ylenia Saretto, Luca Sbragò, Maria Rosa Valluzzi</i></p>	<p>Local Buckling of Rectangular Concrete-Filled Steel Tubular (CFT) Columns with Binding Bars</p> <p><i>Shamsedin Hashemi, A. Khalili Baseri, Reza Kianoush</i></p>	<p>Critical issues in safety assessment of existing reinforced concrete bridges by means of nonlinear analysis</p> <p><i>Gianfranco De Matteis, Silvia Caprilli, Sandro Carbonari, Corrado Chisari, Michele D'Amato, Francesca Mattei, Mattia Zizi, Franco Braga, Andrea Dall'Asta, Fabrizio Gara, Walter Salvatore</i></p>	<p>Structural testing and monitoring system: the case study of a box girder bridge</p> <p><i>Arianna Bertone, Luis Alberto Bohorquez, Rebecca Asso, Davide Masera, Giuseppe Carlo Marano</i></p>	<p>Bond behaviour of externally bonded basalt-FRCM system and calcareous stone</p> <p><i>Marianovella Leone, Giuseppe Bramato</i></p>	<p>An enhanced system for the combined seismic and energy retrofit of masonry buildings</p> <p><i>Silvia Caprilli, Federica Del Carlo, Giacomo Salvadori</i></p>
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11:30-13:00	<p>A WebGIS platform for managing the seismic risk at regional scale: the case study of the Emilia-Romagna Region</p> <p><i>Marta Faravelli, Francesca Bozzoni, Elisa Zuccolo, Antonella Di Meo, Davide Quarani, Diego Polli, Ricardo Rodriguez-Plata, Luca Martelli, Barbara Borzi, Carlo Giovanni Lai</i></p>	<p>Valutazione semplificata della resistenza a taglio di elementi snelli in c.a. con sezione rettangolare e armatura a taglio</p> <p><i>Andrea Floridia, Dario Panarelli, Pier Paolo Rossi, Nino Spinella</i></p>	<p>Application to the territorial authorities of the "Guidelines for the classification and management of risk, for the evaluation of safety and for the monitoring of existing structures"</p> <p><i>Francesca Fattorini, Walter Salvatore, Emanuele Renzi, Galileo Tamasi</i></p>	<p>An innovative ductile bracing system easily repairable after a seismic event</p> <p><i>Federico Gusella, Alessandra Mei, Maurizio Orlando</i></p>	<p>Experimental investigation on tensile and shear bond behaviour of Basalt-FRCM composites for strengthening calcarenite masonry elements</p> <p><i>Maria Concetta Oddo, Giovanni Minafo, Lidia La Mendola</i></p>	<p>Preliminary considerations on the selective weakening of RC columns through rocking systems</p> <p><i>Andrea Belleri, Simone Labò, Alessandra Marini, Maria Adele Biffi, Michele Vignani</i></p>
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11:30-13:00	<p>Seismic fragility modelling of unreinforced masonry buildings in Campania region</p> <p><i>Valentina Buonacunto, Ella Acconcia, Fulvio Parisi</i></p>	<p>Preliminary analyses of an innovative solution for reducing seismic damage in steel-concrete hybrid-coupled walls</p> <p><i>Nicola Ceccalini, Fabrizio Scazzese, Alessandro Zona, Graziano Leoni, Andrea Dall'Asta, Hervé Degeé</i></p>	<p>"Guidelines for the classification and management of risk, for the evaluation of safety and for the monitoring of existing bridges". Critical analysis and identification</p> <p><i>Brunello Cutrone, Walter Salvatore, Emanuele Renzi, Galileo Tamasi</i></p>	<p>Preliminary validation of an innovative stress sensor for the Structural Health Monitoring of masonry buildings</p> <p><i>Alessia Monaco, Gabriele Bertagnoli, Lidia La Mendola, Maria Concetta Oddo, Agatino Pennisi</i></p>	<p>Analytical prediction of the seismic resistance of masonry buildings retrofitted by Steel Fiber Reinforced Mortar coating</p> <p><i>Sara Lucchini, Luca Faccioni, Fausto Minelli, Giovanni Pilzari</i></p>	<p>Preliminary considerations on coupled pinned-supported walls as a strengthening solution for existing buildings</p> <p><i>Andrea Belleri, Simone Labò, Maria Elena Cornelli, Martina Mazzucchetti</i></p>
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11:30-13:00	<p>Peak inelastic displacement as a proxy for accumulating seismic structural damage</p> <p><i>Roberto Baraschino, Georgios Baltzopoulos, Iunia Iervolino</i></p>	<p>Light non-Linear Numerical Analysis of Masonry Structures through a Multi-Unit Discretization (MUDis) procedure</p> <p><i>Ylenia Di Lallo, Davide Rapone, Maria Giovanna Masciotta, Giuseppe Brando</i></p>	<p>Knowledge and Digitalization: a way to improve safety of Road and Highway Infrastructures</p> <p><i>Emanuele Renzi, Carla Assunta Trifarò</i></p>	<p>Monitoring of stress distribution in damaged small scale masonry walls by using two innovative sensors.</p> <p><i>Maria Concetta Oddo, Gaetano Camarda, Giovanni Minafo, Michele Fabio Granata, Gabriele Bertagnoli, Fabio Di Trapani, Agatino Pennisi, Simone Barile</i></p>	<p>Experimental investigation on compressive and shear capacity of CRM reinforced brick masonry walls</p> <p><i>Maurizio Orlando, Luca Salvatori, Carlo Vienni</i></p>	<p>Modeling criteria for the seismic assessment of existing masonry buildings</p> <p><i>Roselena Sulla, Michele D'Amato, Rosario Gigliotti, Domenico Liberatore</i></p>
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11:30-13:00	<p>Clustering of empirical damage data for the vulnerability classification of the Italian residential building stock</p> <p><i>Annalisa Rosti, Maria Rota, Andrea Penna</i></p>	<p>A sub-assembly based technique for calibration of numerical models of infilled r.c. frames according to experimental tests</p> <p><i>Samuel Barattucci, Francesca Barbagallo, Edoardo Michele Marino, Claudio Mazzotti, Luca Pozzo, Carola Tardo</i></p>		<p>Seismic damage and loss evaluation in industrial precast buildings with MEMS accelerometers</p> <p><i>Marco Bosio, Andrea Belleri, Alessandra Marini, Paolo Riva, Simone Castelli, Luca Danesi, Luca Rota</i></p>	<p>CRM reinforced brick masonry: Experimental and numerical investigations</p> <p><i>Carlo Vienni, Maurizio Orlando, Luca Salvatori</i></p>	
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13:00-14:00 Pranzo (MIXTO)

14:00-14:45 Keynote Lecture **F. Ballio (ANIDIS) - Forzanti Naturali sui Ponti: Fiumi e Sismi a Confronto** - (Chair: W. Salvatore)

14:45-15:00 Intervento Tecnico (Freyssinet) - **ISOSISM: esperienze nell'applicazione della protezione sismica alle strutture**

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Chairs:	S. Cattari, A. Masi	F. Di Trapani, G. Uva	A. Formisano, P. Riva	F.C.Ponzo, P. Castaldo	L. Faccioni, F. Roscini	D. De Domenico, P. Ricci
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15:00-16:30	<p>Empirical seismic vulnerability of Italian URM churches hit by the 2016-17 Central Italy earthquake sequence</p> <p><i>Annalisa Rosti, Maria Rota, Caterina Carboni, Andrea Penna</i></p>	<p>Survey on non-linear cyclic responses of Unreinforced Masonry buildings by means of commercial finite-element codes</p> <p><i>Luca Bomben, Giovanni Rinaldin, Marco Fasan, Claudio Amadio</i></p>	<p>Robustness evaluation of a steel bridge in the district of Potenza (Italy)</p> <p><i>Ubaldo Saracco, Matteo Felitti, Francesco Oliveto, Maria Rosa Alvaro, Antonio Formisano</i></p>	<p>In-situ test and model updating of an RC tied-arch bridge</p> <p><i>Andrea Gennaro, Amedeo Caprino, Valentina Perrechele, Filippo Lorenzoni, Francesca da Porto</i></p>	<p>Effectiveness of Flax-TRM composites under traction</p> <p><i>Alessia Monaco, Mattia Baldassari, Jennifer D'Anna, Pietro Carnetti</i></p>	<p>Seismic risk analysis: comparison of typological fragility curves between the Emilia 2012 and L'Aquila 2009 earthquakes for masonry buildings</p> <p><i>Matteo Tatangelo, Lorenzo Audisio, Michele D'Amato, Rosario Gigliotti</i></p>
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15:00-16:30	<p>An Italian platform for the seismic risk assessment of school buildings</p> <p><i>Marta Faravelli, Barbara Borzi, Mauro Onida, Serena Cattari, Sara Alfano, Angelo Masi, Vincenzo Manfredi, Sergio Lagomarsino</i></p>	<p>An efficient elastoplastic model for the analysis of reinforced concrete shells</p> <p><i>Francesco Salvatore Liguori, Antonella Corrado, Antonio Bilotto, Antonio Madeo</i></p>	<p>Preliminary proposal of a probabilistic framework for the post-earthquake performance assessment of road networks</p> <p><i>Lucia Minnucci</i></p>	<p>Push 'o ver': in situ pushover tests on as built and strengthened existing brickwork constructions</p> <p><i>Michele Maria, Laura Gioiello, Fabio Micozzi, Alessandro Zona, Allen Dudine, Salvatore Grassia, Carlos Roberto Passerini, Simone Ciotti, Luca Falò, Domenico Liberatore, Luigi Sorrentino, Giacomo Buffarini, Paolo Clemente</i></p>	<p>Structural strengthening of masonry elements by reinforced repointing combined with FRCM and CRM</p> <p><i>Francesca Ferretti, Sudip Khatiwada, Andrea Incerti, Giorgio Giacomini, Fabrizio Tomaro, Vincenzo De Martino, Claudio Mazzotti</i></p>	<p>Smart technologies for integrated seismic risk management in major hazard industrial plants</p> <p><i>Alessandra Marino, Mariano Ciucci</i></p>
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15:00-16:30	<p>SISMO-Fast: energy-based method for rapid seismic vulnerability assessment of industrial precast RC buildings</p> <p><i>Devis Sonda, Andrea Vittorio Pollini</i></p>	<p>Torsional response of unreinforced masonry buildings</p> <p><i>Maura Mezzina, Alfredo Sollazzo, Giuseppe Uva</i></p>	<p>Operating instructions to the guidelines for risk classification and management, safety assessment and monitoring of existing bridges and seismic risk</p> <p><i>Emanuele Renzi, Alfredo Rossi, Galileo Tamasi, Graziano Tabelli, Chiara Miccinelli, Armando Lanzani, Maria Vaccariello, Carlo Assunta Trifarò</i></p>	<p>Damage identification after seismic events through damage indexes</p> <p><i>Luca Danesi, Simone Castelli, Marco Bosio, Luca Rota, Alessandra Marini, Paolo Riva, Andrea Belleri</i></p>	<p>Influence of displacement rate in the tensile testing of dry yarns for composite materials used in masonry strengthening</p> <p><i>Annalisa Franco, Gabriele Pisano, Luca Schiavi, Giuseppina De Luca, Antonio Bonati</i></p>	<p>Self-centering seismic retrofit of RC buildings using shape memory alloy braces</p> <p><i>Massimiliano Ferraioli, Antonio Concilio, Carmine Moliterna</i></p>
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15:00-16:30	<p>Seismic risk assessment in transboundary areas: the case study on the border between Italy and Slovenia</p> <p><i>Maria Polese, Gabriella Tocchi, Matjaz Dolsek, Anze Babic, Marta Faravelli, Davide Quarani, Barbara Borzi, Andrea Prata</i></p>	<p>RC Beam-column joint, discussion of the provisions in the second-generation Eurocodes</p> <p><i>Angelo Marchisello, Giovanni Muciaccia</i></p>	<p>A regional model for classifying, managing, evaluating, and monitoring the seismic safety of bridge structures: the MLAZIO project</p> <p><i>Fabrizio Paolacci, Gianmarco De Felice, Gianluca Quinci, Pietro Meriggi</i></p>	<p>Integrated BIM-SHM techniques for the assessment of seismic damage</p> <p><i>Simone Castelli, Andrea Belleri, Luca Rota Grassia, Lorenzo Locatelli, Adalgisa Zirpoli, Gabrieleen Svaluto</i></p>	<p>Study on the effectiveness of the CRM system: numerical simulations on masonry piers with OOFEM layered elements</p> <p><i>Ingrid Boem, Borek Patzák, Alena Kohoutková</i></p>	<p>Experimental analysis of the effectiveness of pre-stressed steel strips for the strengthening of beam-column joints in existing RC buildings</p> <p><i>Maria Teresa De Risi, Paolo Ricci, Gerardo Mario Verderame</i></p>
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15:00-16:30	<p>Ground Motion Analysis Toolbox and Seismic Scenarios Toolbox: software tools for seismic damage scenarios assessment in the Emilia-Romagna Region</p> <p><i>Gianluca Salamida, Nicola Buratti, Claudio Mazzotti</i></p>	<p>Empirical modelling of the cyclic response of reinforced concrete columns with deformed bars</p> <p><i>Mariano Di Domenico, Paolo Ricci, Gerardo Mario Verderame</i></p>	<p>The soil-structure interaction effect on the seismic vulnerability assessment and retrofitting of existing bridges</p> <p><i>Marco Gallo, Romeo Tameo, Emidio Nigro</i></p>	<p>Monitoraggio strutturale e infrastrutture di trasporto: un caso studio di integrazione dei dati SAR e dei dati vibrazionali acquisiti in situ</p> <p><i>Felice Carlo Panza, Rocca Ditommaso, Gianluca Auletta, Chiara Iacovino, Nicola Lamaricciola</i></p>	<p>Study on the effectiveness of a CRM system: in-plane and out-of-plane cyclic tests on masonry piers</p> <p><i>Natalino Gattesco, Emanuele Rizzi, Alessia Bez, Allen Dudine</i></p>	<p>Seismic retrofitting strategies for pre-70 RC buildings: the effectiveness of "local interventions"</p> <p><i>Maria Teresa De Risi, Carlo Del Gaudio, Santa Anna Scala, Gerardo Mario Verderame</i></p>
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15:00-16:30	<p>Fragility models for RC frames with masonry in-fills and analysis of the efficiency of different in-s</p> <p><i>Gianluca Salamida, Nicola Buratti</i></p>	<p>Evaluation of the additional shear demand due to frame-infill interaction: a new capacity model</p> <p><i>Fabio Di Trapani, Valentina Bogatkina, Massimo Petracca, Guido Camata</i></p>	<p>The significance of the dynamic interaction between bridge and trucks in the evaluation of the resonance structural frequencies</p> <p><i>Riccardo Martini, Davide Arezzo, Sandro Carbonari, Fabrizio Gara</i></p>	<p>Push-and-release tests of a strategic base-isolated building in Camerino, Italy</p> <p><i>Andrea Dall'Asta, Graziano Leoni, Laura Gioiello, Fabio Micozzi, Laura Ragni, Michele Morici, Fabrizio Scazzese, Alessandra Zona</i></p>	<p>Cyclic shear-compression tests on two stone masonry piers strengthened with CRM and FRCM</p> <p><i>Gabriele Guerrini, Andrea Bruggi, Santi Urso, Marco Quaini, Andrea Penna</i></p>	<p>Iso-performance retrofit solutions under a Life Cycle Thinking perspective</p> <p><i>Simone Labò, Chiara Passoni, Jacopo Zanni, Alessandra Marini, Andrea Belleri, Paolo Riva, Michele Milesi</i></p>
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16:30-17:00 Coffee Break

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Chairs:	F. Mazza, D. Gino	A. Penna, C. Calderini	F. Faleschini, F. Paolacci	D. Foti, A. Belleri	F. Minelli, A. Monaco	C. Amadio, M.A. Zanini
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17:00-18:15	<p>Seismic vulnerability of fixed-base and base-isolated hospitals: blind comparison between shaking table and numerical tests</p> <p><i>Fabio Mazza, Angelo Donnici, Rodolfo Labernarda</i></p>	<p>Global modeling strategies for masonry buildings with timber diaphragms under seismic actions</p> <p><i>Christian Salvatori, Gabriele Guerrini, Ilaria Senaldi, Andrea Penna</i></p>	<p>"Guidelines for the classification and management of risk, for the evaluation of safety and for the monitoring of existing bridges". An automatic calculation model of the seismic attention class optimized for the use of cloud computing services.</p> <p><i>Manuel Copagna, Walter Salvatore, Emanuele Renzi, Galileo Tamasi</i></p>	<p>Structural performance of unreinforced full-scale façade concrete beam-column joint</p> <p><i>Michele Angiolilli, Amedeo Gregori, Roberto Tonelli, Claudio Tonelli</i></p>	<p>Investigating the effectiveness of a CRM system: full scale reverse cyclic tests on a two-storey rubblestone masonry building</p> <p><i>Natalino Gattesco, Emanuele Rizzi, Luca Faccioni, Fausto Minelli, Allen Dudine</i></p>	<p>The capacity of FRP anchors in concrete and masonry structures</p> <p><i>Mariateresa Guadagnuolo, Giuseppe Faella, Giorgio Frunzio, Luigi Massaro, Domenico Brigante</i></p>
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17:00-18:15	<p>Analytical fragility curves proposal for Tuscan masonry building typologies</p> <p><i>Giacomo Lazzarini, Giovanni Menichini, Emanuele Del Monte, Maurizio Orlando, Andrea Vignoli</i></p>	<p>Finite element modelling of steel eccentric braces for seismic retrofitting</p> <p><i>Gaetano Della Corte, Gaetano Cantisani</i></p>	<p>Seismic vulnerability assessment of reinforced concrete bridge piers exposed to chloride-induced corrosion</p> <p><i>Dario De Domenico, Graziano Lamberto, Davide Messina, Antonino Recupero</i></p>	<p>Simplified methods for the evaluation of mechanical properties of tuff masonry walls in Campania (Italy)</p> <p><i>Mariateresa Guadagnuolo, Luciana Di Gennaro, Andrea Basile, Gianfranco De Matteis</i></p>	<p>Experimental and numerical assessment of the out-of-plane bending behavior of masonry walls retrofitted by Steel Fiber Reinforced Mortar coating</p> <p><i>Sara Silvana Lucchini, Luca Faccioni, Fausto Minelli, Giovanni Pilzari</i></p>	<p>Stick model for response prediction of as-built and retrofitted infilled RC frames</p> <p><i>Marco Gaetani d'Aragona, Maria Polese, Andrea Prata</i></p>
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17:00-18:15	<p>Seismic risk assessment: the case study of Barberio di Mugello municipality</p> <p><i>Carolina Bazzani, Giovanni Menichini, Emanuele Del Monte, Maurizio Orlando, Andrea Vignoli</i></p>	<p>Comparison of refined and code-compliant modelling strategies for the seismic analysis of unreinforced masonry buildings</p> <p><i>Stefano Bracchi, Maria Rota, Andrea Penna</i></p>	<p>Application of "Linee Guida per la classificazione e gestione del rischio, la valutazione della sicurezza ed il monitoraggio dei ponti e viadotti esistenti": the experience of Regione Calabria</p> <p><i>Giuseppe Iritano, Santo Dodaro, Giovanna Petrungero</i></p>	<p>Mechanical properties' evaluation of steel bars by non-destructive Vickers micro-hardness tests</p> <p><i>Isabella Mazzatura, Silvia Caprilli, Francesca Mattei, Walter Salvatore</i></p>	<p>Fibre reinforced mortars for the out-of-plane strengthening of masonry walls</p> <p><i>Marta Del Zoppo, Alberto Balsamo, Marco Di Ludovico, Andrea Prata</i></p>	<p>Shear device for coupling of exoskeleton for seismic improvement and existing RC buildings</p> <p><i>Fabrizio Comodini, Alessandro Fulco, Francesco Focacci, Marco Mezzi</i></p>
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17:00-18:15	<p>Seismic analysis and fragility estimate of a mixed masonry-r.c. school building</p> <p><i>Elisa Saler, Amedeo Caprino, Giulia S carabottolo, Francesca Da Porto</i></p>	<p>Modelling of exterior RC beam-column joints for the seismic assessment of RC-frames</p> <p><i>Riccardo Nitiffi, Ernesto Grande, Maura Imbimbo, Annalisa Napoli, Roberto Realfonzo</i></p>	<p>Seismic reliability analysis of a r.c. arch bridge</p> <p><i>Mariano Angelo Zanini, Klajdi Toska, Flora Faleschini, Lorenzo Hafer, Gianantonio Feltrin, Carlo Pellegrino</i></p>	<p>Dynamic identification of a strategic building of the sixties with a mixed structure</p> <p><i>Dora Foti, Nicola Ivan Giannoccaro, Maria Francesca Sabbà, Armando La Scala, Mariella Dielferio</i></p>		<p>Structural assessment of modular precast 3D cell mid-to high-rise buildings with different connections</p> <p><i>Bruno Dal Lago, Luca Volpe, Enrico Papa</i></p>
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17:00-18:15	<p>Seismic performance of multi-storey steel frames with semi-rigid joints</p> <p><i>Greta Agata Venneri, Giuseppe Giampaolo Di Giorlamo, Ivan Memmo, Gianfranco De Matteis, Giuseppe Brando</i></p>	<p>Effects of earthquakes with different nature on the seismic performance of masonry vaults</p> <p><i>Nicoletta Bianchini, Nuno Mendes, Chiara Calderini, Paulo B. Lourenço</i></p>	<p>The infrastructure challenges of hyperloop</p> <p><i>Andrea Santangelo</i></p>	<p>An innovative measure architecture to monitor civil infrastructures</p> <p><i>Federico Germano, Alberto Rigon, Francesco Caraglio,</i></p>		<p>Spiral-based confinement in slabs for the seismic performance enhancement of steel-concrete composite frames</p> <p><i>Claudio Amadio, Chiara Bedon, Marco Fasan</i></p>
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19:30-24:00 Concerto serale (Jazz Club Torino)

Aula Magna "G. Agnelli"

A.M.