



ARCH25 – 11TH INTERNATIONAL CONFERENCE ON ARCH BRIDGES
from preservation of historical legacy to new forms
30th September – 3rd October 2025
Grand Hotel Savoia, GENOA (IT)

Welcome to ARCH25 – 11th International Conference on Arch Bridges!

Proceeded by successful events, the first ARCH Conference UK-Bolton (1995) and the nine subsequent editions in Italy-Venice (1998), France-Paris (2001), Spain-Barcelona (2004), Portugal-Madeira (2007), China-Fuzhou (2010), Croatia-Split (2013), Poland-Wroclaw (2016), Portugal-Porto (2019) and China-Fuzhou (2023).

ARCH25 from preservation of historical legacy to new forms aims at maintaining and widening the arch bridge community, seeking for exchange and diffusion of related knowledge, experience and information. Topics cover technical, scientific and historical issues, cultural heritage and contemporary arch bridges as well as future perspectives and challenges.

In the 2025 edition you will also find interdisciplinary themes: pier scour, material and structural characterization, historical preservation and restoration.

On behalf of the Organising Committee, it is our honour to invite you to participate in and bring your contribution to ARCH25.

Looking forward to see you in Genoa, Italy.

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Antonio Brencich (Chair)

Paolo Zampieri (Co-Chair)

Zoltan Orban (Co-Chair)

Francesco Ballio (Co-Chair)



**Università
di Genova**



**Ordine degli Ingegneri
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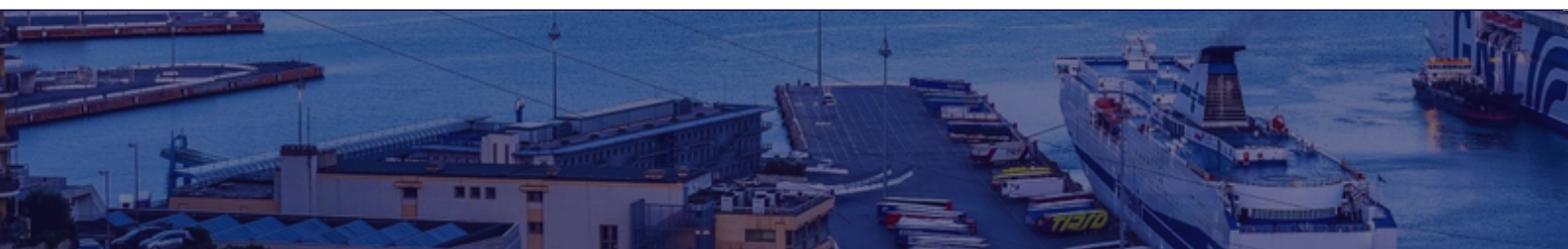
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Khaled Sennah
Jiri Strasky
Adrienn Tomor
Enrico Tubaldi
Michele D'Amato
Tomasz Kamiński



Keynote Lectures



Prof. Francesco Ballio

Technical University of Milan

Pier scour: why old bridges collapse after more than a 100 years life?



Prof. Ivo Calì

University of Catania

The Discrete Macro Element Method for modelling arch bridges



Prof. Bassam A. Izzuddin

Imperial College London

Multi-fidelity Partitioned Modelling of Masonry Arch Bridges



Prof. Junping Liu

Fuzhou University

*Concrete-Filled Steel tube technology for long span arch bridges:
a typical Chinese technology*



Prof. Lorenzo Macorini

Imperial College London

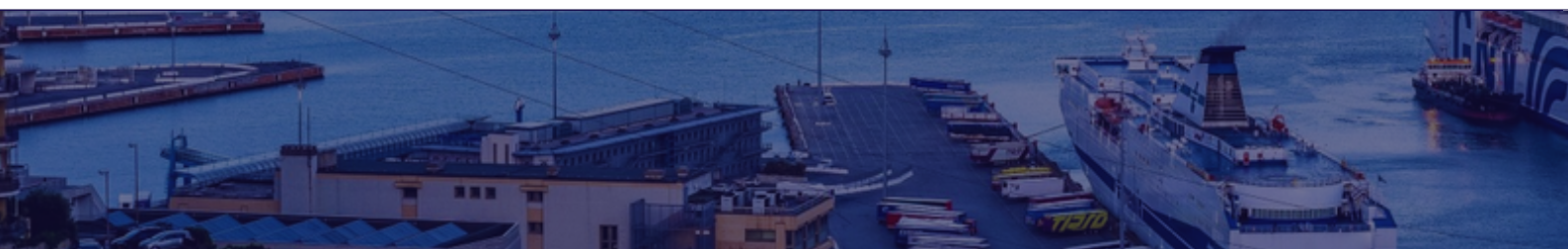
Enhanced monitoring and modelling for improved assessment of masonry arch bridges



Prof. Vasilis Sarhosis

University of Leeds

Digital technologies for the inspection and assessment of historic arch bridges





30th September

Grand Hotel Savoia, GENOA (IT)

19.00 – 21.00

Sala Aurea
WELCOME PARTY

1st October

Grand Hotel Savoia, GENOA (IT)

8:00

Registration

9:00 – 9:40

Sala Aurea
EVENT WELCOME AND CONFERENCE INFORMATION
Antonio Brencich, Conference Chair
Welcome from the University of Genoa
Welcome from the Engineers' Association of Genoa
Antonio Brencich & Paolo Zampieri, Conference Information

Sala Aurea

Sala Orefici

9:40 – 10:40

SS14 Retrofitting and upgrading of masonry arch bridges: from analysis to practice
Organizers: A. Arêde, D. Oliveira, V. Sarhosis, P. Zampieri
Chairs: D. Oliveira, I. Boem

SS11 Modelling and Analysis
Organizers: I. Calìò, F. Cannizzaro
Chairs: I Calìò, L. Macorini

- 9:40
- Structural assessment and sensitivity analysis of a historical masonry arch bridge by discrete macro-element modeling
Luca Penazzato, Davide Rapicavoli, Daniel V. Oliveira, Ivo Calìò, Paulo B. Lourenco
- 9:52
- Q&A
- 9:55
- Strengthening of masonry arch bridges: a preliminary numerical study on the CRM reinforcement of spandrels
Ingrid Boem, Natalino Gattesco
- 10:07
- Q&A
- 10:10
- Load-bearing capacity of masonry arch bridges with multiple defects
Laura Niero, Paolo Zampieri, Vasilis Sarhosis, Carlo Pellegrino
- 10:22
- Q&A
- 10:25
- Damage Assessment and Rehabilitation of the Oldest Renaissance Bridge in Poland
Przemysław Jakiel, Krzysztof Seewald
- 10:37
- Q&A

- 9:40
- Model-to-prototype similarity in Lab Tests
Antonio Brencich, Farhad Akbari
- 9:52
- Q&A
- 9:55
- Buckling analysis for a steel “strutted bowstring arch”: the case of “La Martella” Bridge over Gravina Creek
Antonello De Luca, Laura Giovanna Guidi
- 10:07
- Q&A
- 10:10
- The fearsome interactions of foundations, piers and superstructure in masonry railway viaducts
Hamish Harvey, Bill Harvey
- 10:22
- Q&A
- 10:15
- Asymmetric shape of constant stress arch in tied-arch bridges
Esko Järvenpää, Anssi Laaksonen
- 10:27
- Q&A

10:40 – 11:05

Coffee Break

11:05 – 11:50

SS14 Retrofitting and upgrading of masonry arch bridges: from analysis to practice
Organizers: A. Arêde, D. Oliveira, V. Sarhosis, P. Zampieri
Chairs: D. Oliveira, I. Boem

SS11 Modelling and Analysis
Organizers: I. Calìò, F. Cannizzaro
Chairs: I. Calìò, L. Macorini

- 11:05
- Limit incremental load evaluation of masonry arches cracked by impost movements
Stefano Galassi, Maria Luisa Pilo, Giacomo Tempesta, Gianfranco Stipo, Valerio Alecci, Mario De Stefano, Paolo Zampieri
- 11:17
- Q&A
- 11:20
- Assessment and Retrofit of the “Ponte Corvo” Masonry Bridge in Padua: A Case Study
Davide Santinon, Riccardo Piazzon, Paolo Zampieri, Carlo Pellegrino, M. Organte, R. Bortot, A. De Pin
- 11:32
- Q&A
- 11:35
- Restoration of Old Masonry Bridges Damaged by Longitudinal Cracks
Adam Svoboda, Ladislav Klusáček, Michal Požár
- 11:47
- Q&A

- 11:05
- Simulating an experimental campaign on Masonry Arch Bridges with the Discrete Macro-Element Method
Mauricio Bonatte, Enrico Tubaldi, Daniel Oliveira, Francesco Cannizzaro, Davide Rapicavoli, Bartolomeo Pantò, Marcello Falco, Hazel McDonald, Jose C Matos, Ivo Calìò
- 11:17
- Q&A
- 11:20
- Condition Assessment of a Historical Arch Railway Bridge
Alkim Yasar Kurtulus, Mustafa Can Yücel, Gökçe Çeker, Ahmet Derya Ateş, Melike Çınar
- 11:32
- Q&A
- 11:35
- Limit Analysis of Trussed Arch Bridges: A Simplified Approach
Marco Pagliarusco, Laura Niero, Stefano Galassi, Davide Santinon, Paolo Zampieri
- 11:47
- Q&A

11:50 – 12:35

Sala Aurea
Keynote lecture # 1: Multi-fidelity Partitioned Modelling of Masonry Arch Bridges
Bassam A. Izzuddin (Imperial College London)
Chair: I. Calìò

12:35 – 14:15

Lunch





1st October
Grand Hotel Savoia, GENOA (IT)

14:15 – 15:00	Sala Aurea Keynote lecture # 2: Pier scour: why old bridges collapse after more than a 100 years life? Francesco Ballio (Technical University of Milan) <i>Chair: I. Gambarotta</i>
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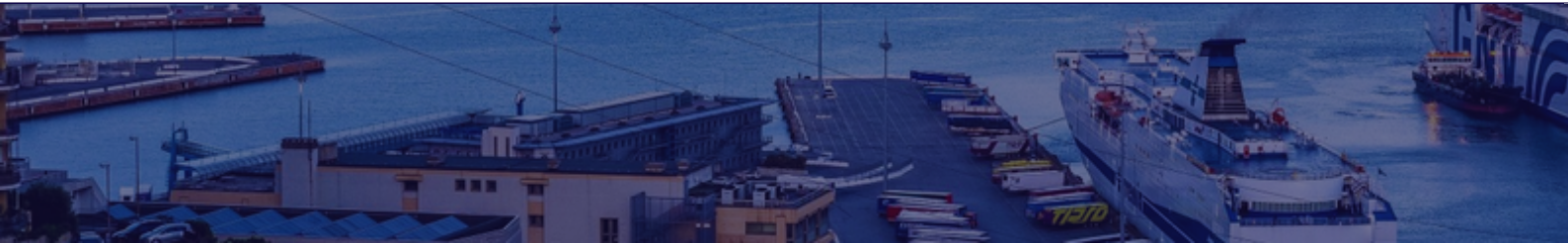
Sala Aurea

Sala Orefici

15:00 – 15:45	SS14A Arched and vaulted structures: design, testing, analysis and restoration with traditional and innovative interventions <i>Organizers: M. D'Amato, R. Gigliotti, D. Liberatore, A. Formisano</i> <i>Chairs: M. D'Amato, M. Zizi</i>	SS15 Traffic load effects on bridges: analysis and response <i>Organizers: C. Costa, R. Silva, T. Kamiński</i> <i>Chairs: A. Arêde, T. Kamiński</i>
15:00	Failure Mechanisms of Arches and Vaults of Masonry Existing Churches in the Romanian Seismic Area of Banat <i>Anna Lo Monaco, Antonella Ranaldo, Michele D'Amato, Rosario Gigliotti, Marius Mosoarca</i>	15:00 Numerical simulation of a strengthening technique in the arch of a stone railway bridge under traffic loads <i>Ruben Silva, Cristina Costa, António Arêde</i>
15:12	Q&A	15:12 Q&A
15:15	State of the art of numerical methods for vaulted structures <i>Roselena Sulla, Federica Buongiorno, Michele D'Amato, Rosario Gigliotti, Domenico Liberatore</i>	15:15 Structural Stiffness as a Global Paameter Characterising Backfilled Arch Bridges <i>Tomasz Kamiński, Czesław Machelski</i>
15:27	Q&A	15:27 Q&A
15:30	Numerical investigations on an existing masonry dome <i>Federica Buongiorno, Roselena Sulla, Michele D'Amato, Rosario Gigliotti, Domenico Liberatore</i>	15:30 Alternative traffic load models for structural assessment: application to a Maillart arch bridge <i>Georgios Baltzopoulos, Laura Giovanna Guidi, Antonio Grella, Junio Iervolino</i>
15:42	Q&A	15:42 Q&A

15:45 – 16:10 Coffee Break

16:10 – 16:55	SS14A Arched and vaulted structures: design, testing, analysis and restoration with traditional and innovative interventions <i>Organizers: M. D'Amato, R. Gigliotti, D. Liberatore, A. Formisano</i> <i>Chairs: M. D'Amato, M. Zizi</i>	SS15 Traffic load effects on bridges: analysis and response <i>Organizers: C. Costa, R. Silva, T. Kamiński</i> <i>Chairs: A. Arêde, T. Kamiński</i>
16:10	Analysis of crack patterns on arches and vaults of an existing masonry church: the case of Millenium Church in Timisoara <i>Antonella Ranaldo, Anna Lo Monaco, Michele D'Amato, Rosario Gigliotti, Marius Mosoarca, Lucian Octavian Dragomir</i>	16:10 Using TMD for mitigation human induced vibrations on footbridges: an optimization procedure applied to the case study of Swan River Pedestrian Bridge <i>Ludovico Bisi, Fabio Dall'Aglio</i>
16:27	Q&A	16:27 Q&A
16:25	Temporary protection of a historic vault bridge in Łądek Zdrój after flood damage <i>Adam Stempniewicz, Przemysław Jakiel, Krzysztof Seewald</i>	16:25 Integrative Study of Ship Collision Dynamics and LS-DYNA Parameters with Machine Learning Applications <i>Abdul Haq, Zhuo Xi, Muhammad Husnain Shabir, Imran Hafeez, Adnan Hafeez</i>
16:37	Q&A	16:37 Q&A
16:40	Structural behaviour of a masonry arch with external post-tensioning system <i>Laura Niero, Marco Pagliaruso, Riccardo Piazzon, Paolo Zampieri</i>	16:40 Load-carrying capacity evaluation of multi-span masonry arch railway bridges on Yolcati (Elazig)-Kurtalan (Siirt) railway line in the East Anatolia <i>Fatih Yilmaz, Mehmet Fatih Yilmaz, Kadir Ozakgul, Barlas Ozden Caglayan</i>
16:52	Q&A	16:52 Q&A





2nd October
Grand Hotel Savoia, GENOA (IT)

9:00 – 9:10
Sala Aurea
Memory of Bill Harvey & Matthew Gilbert

9:10 – 9:55
Sala Aurea
Keynote lecture # 3: Digital technologies for the inspection and assessment of historic arch bridges
Vasilis Sarhosis (University of Leeds)
Chair: E. Tubaldi

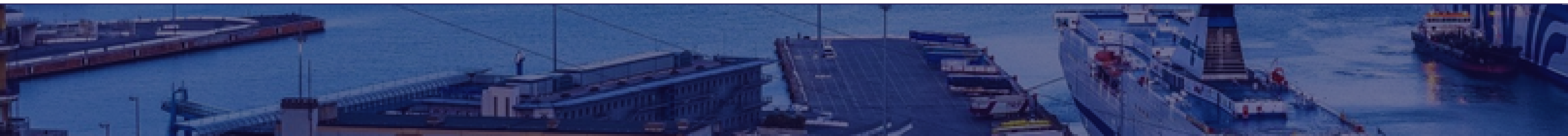
Sala Aurea		Sala Orefici		Sala Erbe-Vigne	
9:55 – 10:55	SS1 Arch bridges: from testing and monitoring to damage detection and assessment <i>Organizers: C. Gentile, Z. Orban</i> <i>Chairs: C. Gentile, N. Cavalagli</i>	SS4 Historical Legacy and Conservation <i>Organizers: C. Calderini, M. Corradi, S. Huerta</i> <i>Chairs: A. Bertolazzi, M. Schiantella</i>		SS10 Seismis analysis and response <i>Organizers: R. Monteiro, R. Nascimbene, L. Pelà</i> <i>Chair: R. Monteiro</i>	
9:55	Long-term dynamic monitoring of a RC arch bridge <i>Marco Pirrò, <u>Carmelo Gentile</u>, Paolo Borlenghi</i>	9:55	Safeguarding Arch Bridges through a Construction History Approach. The Case Study of 'Ponte Della Vittoria' (1951-53) in Verona. <i>Angelo Bertolazzi, Ilaria Giannetti, Francesco Sartore</i>	9:55	Parametric study of masonry arch bridges using substructural discontinuum models <i><u>Alessia Furioli</u>, Nicolò Damiani, Maria Rota, Andrea Penna</i>
10:07	Q&A			10:07	Q&A
10:10	Experimental dynamic analysis of a masonry arch bridge by comparing accelerometric measurements with infrared digital holography <i>Gianni Bartoli, Michele Betti, Andrea Giachetti, Massimiliano Locatelli, Francesca Marafini, Riccardo Meucci, Eugenio Pugliese, Giacomo Zini</i>	10:07	Q&A	10:10	The Allowed Rotations Method for the Assessment of masonry bridges <i><u>Giuseppe Stagnitto</u>, Roberto Siccardi, Masimiliano Ghioni, Alessandro Pederzani, Paolo Zampieri</i>
10:22	Q&A	10:10	The innovative structural conception of Ponte della Costituzione by Calatrava: a unique “pure arch” solution <i>Laura Giovanna Guidi, Antonello De Luca</i>	10:22	Q&A
10:25	Assessment of the In-service Capacity of Masonry Arch Bridges <i><u>Serena Amodio</u>, Colin Smith</i>	10:22	Q&A	10:25	A semi-analytical tool for the seismic assessment of masonry arch bridges <i>Danila Aita, Matteo Bruggi, Alberto Taliercio</i>
10:37	Q&A	10:25	Beauty as essence of structural efficiency in Arch Bridge design: a parametrical overview <i>Laura Giovanna Guidi, Antonello De Luca</i>	10:37	Q&A
10:40	Structural monitoring of the “Ponte delle Torri” in Spoleto after seismic strengthening and restoration <i><u>Nicola Cavalagli</u>, Chiara Pepi, Filippo Ubertini, Massimiliano Gioffre</i>	10:37	Q&A	10:40	Seismic Vulnerability Analysis of the Ferriera Bridge in Avellino <i>Gessica Volpe, Emilia Meglio, Antonio Formisano</i>
10:52	Q&A	10:40	The Medieval Aqueduct of Perugia: New Perspectives on the World' Oldest High Line <i>Vittorio Gusella, Riccardo Liberotti, <u>Mattia Schiantella</u>, Matilde Paolucci</i>	10:52	Q&A
		10:52	Q&A		

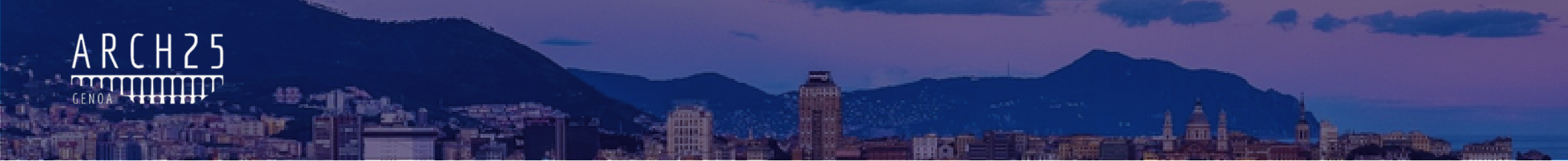
10:55 – 11:20
Coffee Break

11:20– 12:20		SS1 Arch bridges: from testing and monitoring to damage detection and assessment <i>Organizers: C. Gentile, Z. Orban</i> <i>Chairs: C. Gentile, N. Cavalagli</i>		SS9 Optimal Management and Retrofitting for Resilient Bridge Infrastructures <i>Organizers: B. Briseghella, R. Cucuzza, M. Domaneschi, G. C. Marano</i> <i>Chairs: B. Briseghella, M. Domaneschi</i>		SS11A Collapse analysis of masonry arch bridges: new numerical models and structural applications <i>Organizers: S. Amodio, N. Grillanda, L. Niero</i> <i>Chairs: S. Amodio, N. Grillanda</i>		
	11:20	Failure of masonry arch bridges: a comparative study on two experimental campaigns of full-scale laboratory tests <i>Bowen Liu, Vasilis Sarhosis</i>		11:20	RFI experience in the management, maintenance and monitoring of railway arch bridges <i>Efisio Murgia, Andrea Vecchi, Alessandro Annicchiarico, Filippo Carmona, Francesco Iodice, Alberto Mauro, Giulia Polimanti</i>		11:20	Numerical analysis of masonry arch bridges under soil dynamic loading <i><u>Nicola Grillanda</u>, Vincenzo Mallardo, Pedro Galvin, Antonio Romero</i>
	11:32	Q&A		11:32	Q&A		11:32	Q&A
	11:35	Structural assessment of masonry arch bridges previously subjected to vertical settlement <i><u>Mattia Zizi</u>, Corrado Chisari, Gianfranco De Matteis</i>		11:35	Characterization of traffic loads on Arrábida arch bridge by measuring deformations in strategic structural elements <i><u>Isabelle Hyppolito</u>, Carlos Moutinho, Sérgio Pereira, Alvaro Cunha</i>		11:35	Parametric Modelling and Nonlinear FE Analysis of the Trepponti Bridge under Differential Settlement <i>Giovanni Meloni, <u>Mohammad Pourfouladi</u>, Natalia Pingaro, Gabriele Milani</i>
	11:47	Q&A		11:47	Q&A		11:47	Q&A
	11:50	Structural efficiency of arch bridges and comparison of materials <i>Emanuele Maiorana, Bruno Briseghella, Camillo Nuti</i>		11:50	Enhancing Bridge Resilience and Longevity through Simulation-Based Digital Twin <i>Simone Rover, <u>Massimo Penasa</u>, Andrea Piscini, Edoardo Troielli</i>		11:50	Uncertainties in the load-bearing capacity of masonry arch bridges: the role of mechanical parameters as stochastic variables <i>Danila Aita, Matteo Bruggi, Elsa Garavaglia</i>
	12:02	Q&A		12:02	Q&A		12:02	Q&A
	12:05	Lessons learned from OMA testing and model refinement of two long span arch bridges <i><u>Ilenia Rosati</u>, Carlo Rainieri</i>		12:05	Preservation of Railway Arch Bridges in Germany <i><u>Conrad Pelka</u>, Steffen Marx</i>		12:05	Rotation capacity of regular stone masonry <i>Antonio Brencich, Farhad Akbari, Massimiliano Ghioni, Alessandro Pederzani, Roberto Siccardi, <u>Giuseppe Stagnitto</u></i>
	12:17	Q&A		12:17	Q&A		12:17	Q&A

12:20 – 13:05
Sala Aurea
Keynote lecture # 4: The Discrete Macro Element Method for modelling arch bridges
Ivo Calìò, University of Catania,
Chair: A. Brencich

13:30 – 14:00
Lunch





2nd October
Grand Hotel Savoia, GENOA (IT)

14:00 – 14:45		Sala Aurea		Keynote lecture # 6: Concrete-Filled Steel tube technology for long span arch bridges: a typical Chinese technology <i>Junping Liu (Fuzhou University)</i> <i>Chair: B. Briseghella</i>	
14:45 – 15:30		Sala Aurea		Keynote lecture # 5: Enhanced monitoring and modelling for improved assessment of masonry arch bridges <i>Lorenzo Macorini (Imperial College London)</i> <i>Chair: F. Ballio</i>	
15:30 – 16:15		Sala Aurea	Sala Orefici	Sala Erbe–Vigne	
15:30 – 16:15		SS1 Arch bridges: from testing and monitoring to damage detection and assessment <i>Organizers: C. Gentile, Z. Orban</i> <i>Chairs: C. Gentile, V. Sarhosis</i>		SS7 Landslide risk assessment and management for arch bridges <i>Organizers: L. Brezzi, A. Doglioni, S. Stacul</i> <i>Chairs: L. Brezzi, M. Zizi</i>	
15:30		Lesson learned on the workflow for the safety assessment of masonry arch bridges in the framework of the Italian Regulation <i>Valerio Sabbatini, Arianna Pronesti, Marcello Cademartori, Valeria Di Siena, Stefano Berardis</i>		15:30	
15:42		Q&A		15:30	
15:45		Detection of structural changes on a long-span arch bridge: a comparative study between OMA and DL <i>Marco Pirrò, Carmelo Gentile</i>		15:30	
15:57		Q&A		15:42	
16:00		Ambient vibration analysis of a masonry arch bridge during an in-situ loading test <i>Pierre Morenon, Antoine Guillemot</i>		15:42	
16:12		Q&A		15:42	
16:15 – 16:40		Coffee Break		15:45	
16:40 – 17:25		SS16 Case studies <i>Organizer: M. Petrangeli</i> <i>Chair: M. Petrangeli</i>		SS2 Monitoring & Control <i>Organizers: B. Chiaia, M. Domaneschi, G. Rizzano, V. Villa</i> <i>Chairs: B. Chiaia, M. Domaneschi</i>	
16:40		The rehabilitation of masonry and concrete bridges <i>Marco Petrangeli, Fabrizio Oliveti, <u>Marzio Petrangeli</u>, Giulia Nicolò</i>		16:40	
16:52		Q&A		16:40	
16:55		The use of asymmetric open sections in steel arches intended for railway bridges <i>Roberto Zanon, Paolo Toniolo, Guido Furlan</i>		16:52	
17:07		Q&A		16:52	
17:10		Bow string bridges: optimization and launching <i>Marco Petrangeli, Luca Gasperoni, Giovanni Potenza, Giuseppe Lobriglio</i>		16:55	
17:22		Q&A		17:07	
11:10 – 11:55		SS13 Application of new materials and structures in improving performance of arch bridges <i>Organizers: J. Yang, J. Du, M. Domaneschi</i> <i>Chairs: J. Yang, J. Du, M. Domaneschi</i>		17:10	
17:25 – 18:10		SS16 Case studies <i>Organizer: M. Petrangeli</i> <i>Chair: M. Petrangeli</i>		17:10	
17:25		Numerical study on the mechanical behavior of CFST Melan arch under in-plane load <i>Fuyun He, Baochun Chen, Cong Li, Briseghella Bruno</i>		17:22	
17:37		Q&A		17:22	
17:40		Numerical analysis of bearing capacity for steel tube reinforced concrete short columns under double initial stresses <i>Qian Yang, Zhichao Lai, Junping Liu, Baochun Chen</i>		17:25	
17:52		Q&A		17:37	
17:55		Numerical Analysis of a Steel Truss Web–UHPC Composite Arch Bridge Considering Construction Stages <i>Yitu Yang, Yan Yang, Junping Liu, Baochun Chen</i>		17:40	
18:07		Q&A		17:52	
20:30 – 23:30		Social Dinner and Award Ceremony <i>MUSEO DIOCESANO</i> <i>Via Tommaso Reggio 20r</i> <i>16123 - Genova (GE)</i>		17:55	
				18:07	

VENUE

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SOCIAL DINNER LOCATION

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www.museodiocesanogenova.it

ORGANIZING SECRETARIAT

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THANKS TO

