

POSTER SESSION 1

WEDNESDAY SEPTEMBER 22; 10:30-11:00

Session	P1A
Location	casinò-salone adriatico
Theme	<i>Basis of Design</i>
Title 1	New Old-Fashioned-Style Lattice Footbridge and Retrofitting of a Masonry Arch Bridge in the Ticino Natural Park
Authors 1	L. Zanaica, R. Zanon & F. Caobianco
Title 2	Ferrari World, Passion for Structural and Cladding Engineering
Authors 2	S. De Gaetano
Title 3	Computer Supported Design of Industrial Buildings Made of Precast Concrete
Authors 3	A. Albert & A. Nitsch
Title 4	Bearing Behaviour of Biaxial Hollow Core Slabs
Authors 4	A. Albert, M. Abramski, J. Schnell & A. Nitsch
Title 5	"Angel's Hospital" Railway Station in Mestre Venice: Fire Analysis
Authors 5	L. Zanaica, R. Zanon & F. Caobianco
Title 6	The New Cable Stayed Bridge in Bari, Italy
Authors 6	L. Zanaica, R. Zanon & F. Caobianco
Title 7	A New Steel Arch Bridge in the City of Padua
Authors 7	L. Zanaica, R. Zanon & F. Caobianco
Title 8	Development Of Integral Bridge Design in Austria
Authors 8	R. Geier
Title 9	Retrofit With FRP Elements and Seismic Performance Assessment of the Historic "Castagnara" Bridge, in Padua, Italy
Authors 9	O. Bergamo, L. Damiani & G. Russo
Title 10	The Effects of Reduced Beam Section Connections on Seismic Displacement Demands in Steel Moment Frames
Authors 10	A. Ghaznavi & M. Gerami
Title 11	A New Railway for Old in East London
Authors 11	J. Place & R. Cox
Title 12	Shear Strength Investigation of Concrete Girders with Proposed Horizontal Shear Reinforcements in Webs
Authors 12	C. Liu & D. Xu
Title 13	3.2km Precast Segmental Constructed Viaduct - Viaduct V5c, Gautrain Rapid Rail Link
Authors 13	R. Burke
Title 14	Design and Construction of a Double-Curved Railway Overpass and 3-Track Tubular Arch
Authors 14	P. Van Bogaert
Title 15	The Sustainable Highway for Environmentally Constrained Urbanized Areas
Authors 15	L. I. Vákár & H. H. Snijder

Session	P1B
Location	casinò-salone adriatico
Theme	<i>Infrastructure Design as a meeting point for Architecture and Engineering</i>
Title 1	Profiled Steel Pipes – Innovative Reinforcement for Floor Slabs with Concrete Core Activation
Authors 1	M. M. Fuchs, M. Wiedekind & M. W. Keuser
Title 2	The Properties of Arches Under Loading Especially for Historical Buildings
Authors 2	M. H. Maleki Tabrizi & A. A. Bigdeli
Title 3	Montreal – Aquatic Complex for 2005 FINA World Championship
Authors 3	S. Zmigrodzki
Title 4	"Tausendfüßler" and "Brückenfamilie" in Düsseldorf, (1950-1976). A Technological and Symbolic Icon of the Post-War Reconstruction in Germany
Authors 4	A. Milan
Title 5	Aesthetic Design for the Shi-Cong Viaduct
Authors 5	Z. J. Hu & Z. F. Hu
Title 6	Spatial Concrete Plate Structures
Authors 6	A. Gianoli & M. Kunze
Title 7	Design of the Ax/A11-Motorway: Balancing the Interests of Ecologically Important Areas, Local Citizens and the Port of Zeebrugge
Authors 7	P. Cosyn, F. Buyse & B. Van Acker
Title 8	Applications of FRP Projects in Egypt
Authors 8	A. Abdelrahman & A. H. Hosny
Title 9	Cyclic Behaviour of Prefabricated High-Strength Concrete Composite Beam-to-Column Joints
Authors 9	J. He, R. Ma, X. Ruan, A. Chen, T. Zordan, B. Briseghella & E. Mazarolo

Session	P1C
Location	casinò-salone adriatico
Theme	<i>Infrastructure Hazard and Safety Concepts</i>
Title 1	Effect of Modelling Simplifications on Nonlinear Seismic Analysis of Integral Bridges Including Dynamic Soil-Structure Interaction

Authors 1	M. Dicleli & S. Erhan
Title 2	Experimental Study on Effect of Corrosion-Induced Cracking on Bond Property Between Deformed Steel Bar and Concrete
Authors 2	L. Wang, J. Zhang & Y. Ma
Title 3	Integrated Rescue Galleries – an Alternative Safety Concept for Road Tunnels
Authors 3	I. Kaundinya, G. Vollmann & W. Caspari
Title 4	Experimental Investigation on Effects of Corrosion on Reinforcement Strength
Authors 4	J. Peng, K. Zhang & Z. Zhong
Title 5	Quantification of Remaining Lifetime of Post-Tensioned Concrete Bridges
Authors 5	H. Wenzel & R. Veit-Egerer
Title 6	Evaluation of Seismic Capacity Related to Damage Degree for Repaired Reinforced Concrete Members
Authors 6	K. Takimoto, M. Okamoto, Y. Tanimura, N. Hara, T. Nihei, S. Tsuchiya, T. Sasaya & T. Watanabe
Title 7	40-Year-Old Bridge Strengthened with Prestressed CFRP Laminates and Monitored by FBG Gauge
Authors 7	J. Zhang, H. Peng, S. Shang & X. He
Title 8	The Importance of Dynamic Effects in Progressive Collapse
Authors 8	V. Janssens & D. O'Dwyer
Title 9	Investigation on Construction Quality Indices for Concrete Box Girders
Authors 9	W. Q. Wu, J. J. Fu & F. Lin
Title 10	A Strategy for Modelling External User Element in Ansys: the Bouc-Wen and the Skyhook Case
Authors 10	L. Martinelli, M. Domaneschi & M. Romano

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PARALLEL SESSION 1

WEDNESDAY SEPTEMBER 22; 13:30-15:00

Session	1A
Location	casinò-sala Perla
Theme	<i>Basis of Design</i>
Chair	Montens Serge; Gentile Carmelo
Title 1	Comparisons of Highway Bridge Designs in the World by Benchmark
Authors 1	S. Toma & J. Y. Maeda
Title 2	Nottingham Station Bridge, UK
Authors 2	B. Duguid
Title 3	Slim-Floor Girder – Experimental Tests and Design Rules for the Deflection
Authors 3	G. Hauf & U. Kuhlmann
Title 4	Wheel Prints and Axle Geometries for Static and Fatigue Load Models of Expansion Joints for Road Bridges
Authors 4	J. S. Leendertz, W. Neumann & C. Butz
Title 5	Concrete Columns that Don't Collapse Easily During Large Earthquakes
Authors 5	J. Kino, T. Ishibashi, M. Ohba, T. Kanno, K. Kobayashi & J. Kaneda
Title 6	Case Study: the Need to Improve Specifications to Ensure Quality Control in Galvanized Steel
Authors 6	A. D. Mah & M. Medhekar
Title 7	Floor Vibration Performance of Lightweight Cold-Formed Steel Framing
Authors 7	L. Xu
Title 8	Compression Tests of Longitudinally Stiffened Plates Undergoing Distortional Buckling
Authors 8	Y. B. Kwon & H. S. Park
Title 9	The Brazilian Standard for Seismic Design: General Aspects and Seismological Basis
Authors 9	S. H. C. Santos & S. de Souza Lima
Title 10	Design Tool for Practical Design of Integral Bridges
Authors 10	J. Krizek & J. Studnicka

Session	1B
Location	casinò-sala delle Feste
Theme	<i>Basis of Design</i>
Chair	Di Bernardo Salvatore; Biondini Fabio
Title 1	Serviceability of Reinforced Concrete Beams Under High-Cycle Fatigue Loading
Authors 1	C. Zanuy, L. Albajar & P. De La Fuente
Title 2	A Comparative Study on Viaduct Structure around New High-Speed Railway Stations
Authors 2	B. Yan & G. Dai
Title 3	Numerical Approach to Structural Performance Assessment of Corroded Reinforced Concrete Structures
Authors 3	S. Saito
Title 4	The Realisation of the Samuel Beckett Bridge – Dublin, Ireland
Authors 4	J. W. Flanagan, G. Mo & J. D. Cutter
Title 5	Study of New Method for Retrofitting Pre-Northridge Connections by Reducing Beam Section
Authors 5	A. Ghaznavi & M. Gerami
Title 6	Crack Mechanism in Thick Concrete Structures During Hydration
Authors 6	J. Boedefeld
Title 7	The Influence of Diaphragm Stiffening on Welded Tubular Nodes in Arch Bridges
Authors 7	P. Van Bogaert, D. Stael & H. De Backer
Title 8	Decision Method on Reasonable Design State of Self-Anchored Suspension Bridge with Spatial Cables
Authors 8	C. Li, C. Dong, Y. Zhang, X. Gao, H. Ke & M. Zeng
Title 9	Analysis of a Cable-Stayed Bridge: the Case of "the Baluarte Bridge"
Authors 9	A. Pozos, R. Sanchez, R. Gomez J., R. Gomez M. & J. A. Escobar
Title 10	BEF Analogy for Concrete Box Girder Analysis of Bridges
Authors 10	M. Arici, M. F. Granata & A. Recupero

Session	1C
Location	casinò-sala mosaici 1
Theme	<i>Infrastructure Hazard and Safety Concepts</i>
Chair	Kanda Jun; Meroi Emilio
Title 1	Non Linear Probabilistic Analysis of Reinforced Concrete Structures
Authors 1	J. C. Matos, P. S. Cruz & I. B. Valente
Title 2	Probability-Based Vulnerability Assessment of Cable-Stayed Bridges
Authors 2	D. Yan
Title 3	Use of Monitoring Data for a Probabilistic Analysis of Structures
Authors 3	M. Keuser, T. Braml & I. Mangerig
Title 4	Performance Based Seismic Retrofitting of Reinforced Concrete Buildings Using Steel Braces and a Link
Authors 4	M. Dicleli & C. Durucan
Title 5	Research of Risk Assessment Technology for Long-span Bridge
Authors 5	J. Zhang, G. Liu, J. Chen & J. Zhao
Title 6	Experimental Research on Debonding in Concrete-Filled Steel Tubes Columns Subjected to Eccentric Loading
Authors 6	J. Xue, B. Chen & B. Briseghella

Title 7	Risk, Structural Engineering and Society
Authors 7	B. L. O. Edlund
Title 8	Climate Change and its Influence on Spatial Time-Dependent Reliability of Pretensioned Prestressed Concrete Bridge Girder Subject to Carbonation-Induced Corrosion
Authors 8	L. Wang, J. Zhang & J. Peng
Title 9	Using Acoustic Monitoring to Extend the Life of Post-Tensioned Cable Supported Bridges
Authors 9	O. Tozser, K. J. Barker & C. Rowcroft
Title 10	Experimental Testing of Stirrup Corroded RC Beam with Oblique Steel Reinforcement
Authors 10	J. Zhang, J. Peng & L. Hu

Session	1D
Location	casino-sala mosaici 2
Theme	Infrastructure Design as a meeting point for Architecture and Engineering
Chair	Majowiecki Massimo; Bullo Sandra
Title 1	The New Airport "Berlin-Brandenburg-International"
Authors 1	M. Weißbach, K. Göppert, T. Schoknecht & T. Fackler
Title 2	Comparison of a Single and Double Main Span Suspension Bridge for the Western Scheldt Crossing
Authors 2	R. A. Daniel, F. J. Van Dooren & R. H. De Meijer
Title 3	Aerodynamic Stability of Large Suspension Bridge Using Cable Frames
Authors 3	T. Yoshimura & M. Kawahara
Title 4	Tied Arch Bridges with Optimised Arrangement of a Limited Number of Hangers
Authors 4	P. Van Bogaert
Title 5	Construction Process Simulation of Moveable Hybrid GFRP/ Concrete Bridge Deck
Authors 5	J. He, L. Dai, Y. Liu & A. Chen
Title 6	Lateral Arch Vibrations of a Steel Bowstring Bridge Due to Traffic Loads
Authors 6	T. Bittermann, K. Latz & S. Lühr
Title 7	A Slender Pedestrian Bridge Made of Textile Reinforced Concrete
Authors 7	C. Kulas, C. Goralski & J. Hegger
Title 8	Soft Infrastructure in the Urban Estuary / Palisade Bay
Authors 8	G. J. P. Nordenson, M. W. Tantalá, A. Yarinsky & C. Seavitt
Title 9	Media City Footbridge, Salford Quays
Authors 9	P. Curran & S. Thompson
Title 10	Exploring Issues of Aesthetics in a Railway Environment : the Infrastructure of Stratford City, London
Authors 10	M. Knight & I. Wilson

POSTER SESSION 2

WEDNESDAY SEPTEMBER 22; 15:00-15:30

Session	P2A
Location	casinò-salone adriatico
Theme	<i>Basis of Design</i>
Title 1	Shear Resistant Mechanism of Reinforced Concrete Beams for Seismic Design of Railway Structures
Authors 1	K. Watanabe, Y. Tanimura, T. Tadokoro, J. Niwa & M. Yonehana
Title 2	Case Study of a Simply-Supported Channel-Box Girder Bridge under Special Live Load
Authors 2	G. Dai & X. Xiao
Title 3	Preliminary Design of a New Crossing of the River Mersey
Authors 3	A. P. Marginson
Title 4	Overhead Railway Project with Environmentally-Friendly Concepts
Authors 4	K. Asakawa & Y. Kaneko
Title 5	The Design of Pre-Stressed Concrete Continuous Curved Beam Bridge with Extra-Small Radius and Large Curvature in New Wuhan Railway Station
Authors 5	G. Dai & J. Jiang
Title 6	The Research on Live Load Model for High-Speed Passenger Railway Bridge
Authors 6	G. Dai & L. Li
Title 7	Evaluation of Increasing Coefficient of Fundamental Period of Buildings
Authors 7	A. Kasaei, E. Ghafari & S. Mohsenian
Title 8	Strain Gauge Measurements During the Assembly of the Diabolo Tunnel
Authors 8	P. Van Bogaert, K. Schotte, H. De Backer, T. Nuttens & A. De Wulf
Title 9	Low-Cycle Fatigue Strength of Steel Piles
Authors 9	H. Pétursson, P. Collin & K. Eriksson
Title 10	Formulation for Load-Slip Relationships of Headed Stud Connector
Authors 10	H. Shima & S. Watanabe
Title 11	Transparent Facade Solutions with Bonded Glass-Steel Beams
Authors 11	B. Weller, A. Walther & T. Weimar
Title 12	Behaviour of Tendon Anchorage Zone for Ultra-High Performance Concrete Members
Authors 12	W. J. Chin, B. S. Kim, E. S. Choi & J. Y. Kang
Title 13	Adoption of the Response Spectra Method to Calculate the Dynamic Response of Railway-Bridges
Authors 13	J. Fink & T. Mähr
Title 14	Development and Practical Application of Liquid-V-Dampers
Authors 14	J. Fink & S. Kuss

Session	P2B
Location	casinò-salone adriatico
Theme	<i>Management and Planning of Operation and Maintenance</i>
Title 1	Urban Demolitions in Barcelona
Authors 1	R. Menguina, J. Llongueras, J. Regue & M. Valdes
Title 2	Feasibility of Sacrificial Cathodic Protection as an Effective Corrosion – Control Measure for the Protection of Reinforced Concrete Bridges
Authors 2	G. Chirgwin, F. Jesmin & M. Moore
Title 3	Increasing Road Capacity by Emergency Laws "Broadening of the Roads"
Authors 3	E. Schuiling
Title 4	Development of a Bridge Inspection and Management Project
Authors 4	F. Akgul
Title 5	Nanocomposite, an Innovative Route to Large Structure and Infrastructure Protection. A Case of Study: CNT-doped Polyurea
Authors 5	M. Saeli, R. Betti & H. Waisman
Title 6	Actual Stiffness Identification of Constructed Bridges
Authors 6	X. Shi, D. Feng & X. Ruan
Title 7	100 Years Intze Gravity Dams - Even Today Indispensable Infrastructure Facilities
Authors 7	D. Linse
Title 8	Structural Analysis, Rehabilitation and Further Development of Health Monitoring Program Concerning Two Reinforced Concrete Chimneys
Authors 8	D. Dan, T. Nagy Gyorgy, L. Pruna, S. C. Florut & V. Stoian
Title 9	Bond Strength of Plain Round Bars Repaired by Epoxy Resin Injection
Authors 9	H. Araki & J. Kagawa
Title 10	Second Bay of Cadiz Bridge. Quality Control and Monitoring
Authors 10	M. Escamilla, M. Sacaluga, M. Martin, V. Vega, J. Cayetano & J. Perez
Title 11	A Study on Integrated Geometry Management and Wireless Control System for the Construction of Concrete Pylon of Cable Stayed Bridges
Authors 11	W. J. Chin, B. S. Kim, E. S. Choi, J. Y. Kang & Y. J. Kim

Session	P2C
Location	casinò-salone adriatico
Theme	<i>Infrastructure Design as a meeting point for Architecture and Engineering</i>
Title 1	Ancient Bridges, New Landscapes
Authors 1	M. Manganaro
Title 2	Visual Impact Assessment for Infrastructure Design
Authors 2	G. Dell'Acqua, F. Russo & R. Lamberti
Title 3	Form as a Result of Local Conditions. Architectural Design of Two New Urban Bridges in San Sebastian, Spain.
Authors 3	M. Sacristan, E. Merino, G. Capellan & S. Guerra
Title 4	Architectural Engineering Applied to the Design of Urban Bridges. New Paradigm for the Use of Classic Typologies in Urban Areas.
Authors 4	M. Sacristan, J. Martinez, E. Merino & G. Capellan
Title 5	"Cerradura" Stress Ribbon Footbridge, Iznajar (Spain)
Authors 5	J. Jimenez & D. Gomez
Title 6	Geodetic Domes for Great-Span Structures: Mandela Forum Project Proposal in Florence
Authors 6	G. Armeni, M. Orlando, V. Di Naso, P. De Bartolomeis & C. Borri
Title 7	Antwerp - Oosterweelverbinding the "Lange Wapper" bridge
Authors 7	J. Y. Del Forno, V. De Ville De Goyet & J. M. Cremer
Title 8	Thermal Control through a Unique Coloured Solar Curtain Wall Solution
Authors 8	Y. Ducommun
Title 9	Design Proposal of New Roadway Bridge Across the Danube in Novi Sad
Authors 9	B. Stipanac, D. Ladjinovic, Z. Floric, D. Pavkov & N. Radusinovic

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PARALLEL SESSION 2

THURSDAY SEPTEMBER 23; 09:30-10:30

Session	2A
Location	casinò-sala Perla
Theme	Basis of Design
Chair	Fenu Luigi; Saetta Anna
Title 1	Study on Small and Medium Continuous Beams in Beijing-Shanghai High-Speed Railway
Authors 1	G. Dai & W. Liu
Title 2	The Recent Improvement of High-Speed Railway Bridges in China
Authors 2	N. Hu, W. Liu & G. Dai
Title 3	Adaptable High-Rise Buildings
Authors 3	V. Sigrist & T. Von Borstel
Title 4	Mechanical Behaviors Analysis on a Arch Rib Segment of Yongjiang Bridge in the Eastern-Outer-Ring of Ningbo City
Authors 4	K. M. Chen, Q. X. Wu, B.C. Chen, S. Nakamura
Title 5	Experimental and Analytical Study of Push-Out Shear Tests in Ultra Shallow Floor Beams
Authors 5	B. Y. Huo, K. D. Tsavdaridis & C. D'Mello
Title 6	Dimensioning of Structures Made of UHPFRC
Authors 6	M. Rauch & V. Sigrist
Title 7	Extremely Slender Steel and Composite Deck Slabs for Railway Bridges
Authors 7	J. Fink, L. Juen & P. Herrmann
Title 8	Composite Beam: Non-Linear Analytical Exact Fully-Developed Model
Authors 8	P. Foraboschi
Title 9	Structural Design of the New Football Stadium of Panathinaikos F.C. in Votanikos, Greece
Authors 9	C. Gantes, H. Schmidt, F. Zoulas, M. Majowiecki, A. Athanasiadis & C. Gkologianis
Title 10	The Load Bearing Capacity of Fillet Welded Connections of High-Strength Steel
Authors 10	C. Rasche & U. Kuhlmann

Session	2B
Location	casinò-sala delle Feste
Theme	Infrastructure Design as a meeting point for Architecture and Engineering
Chair	Briseghella Bruno; Chen Airong
Title 1	A Modern Lattice Bridge over Ticino River in the Ticino Natural Park
Authors 1	L. Zanaica, R. Zanon, A. Martínez Cutillas, F. Caobianco, J. Manterola Armisen & F. B. Martín Martínez
Title 2	Engineering and Architecture Unite for Railway Bridge
Authors 2	F. Rapattoni, J. Dauth & E. Giannini
Title 3	On the Development of Structural Criticism through Case Studies
Authors 3	I. Payà-Zaforteza
Title 4	Seismic Retrofit of Tokyo Tower
Authors 4	H. Kunitsu, N. Kashimoto & K. Nishino
Title 5	Metropol Parasol: a New Plaza and a Unique Timber Mega Structure right in the Heart of Seville
Authors 5	V. Schmid
Title 6	Systematization of Structures and Forms of Truss Systems
Authors 6	Y. Kubota
Title 7	The Bridge of Peace: a Monument to Tbilisi's Different Identities
Authors 7	M. De Lucchi
Title 8	Design of the Forth Replacement Crossing, Scotland, UK
Authors 8	N. Hussain, M. Carter & S. Kite
Title 9	Evaluation of Critical Loads of Steel Frames Using Iterative Buckling Analysis
Authors 9	D. H. Choi, S. G. Gwon & H. Yoo
Title 10	Long Span Wooden Structural Beams Assembled with Four Meter Long Timbers Using Japanese Traditional Connections
Authors 10	T. Asakawa & T. Kouno

Session	2C
Location	casinò-sala mosaici 1
Theme	Infrastructure Hazard and Safety Concepts
Chair	Chung Young Soo; Cecchi Antonelli
Title 1	Risk Management of Environmentally Constrained Infrastructures
Authors 1	E. Bianchi
Title 2	Test of Wind Parameters and Cable Vibration of Shenzhen Bay Bridge
Authors 2	Z. Liang, N. Li & L. Feng
Title 3	Failure Prediction of Full Scale Bridge Pier on 3D Shaking Table Test
Authors 3	T. Anabuki, K. Yonezawa & K. Tanaka
Title 4	Experimental and Computational Studies on Steel Beam End Framing Connections in Fire
Authors 4	M. D. Engelhardt & G. Hu
Title 5	Ship Impact Studies for the Forth Replacement Crossing
Authors 5	N. Hussain, M. Carter & S. Kite

Title 6	Fondovalle Dolo Road: Viaduct on the Landslide of Boschi Di Valoria
Authors 6	F. Dall'Aglio, L. Piacentini & A. Manni
Title 7	TMD Method of Construction for the Cable Stayed Bridge in the Environmentally Constrained Areas
Authors 7	D. Y. Kim, Y. M. Kim, S. J. Joo, Y. S. Kim & Y. H. Kwak
Title 8	CMS4SI Structural Identification Approach for Interpreting Measurements
Authors 8	J. A. Goulet & I. Smith
Title 9	Blast Resistance Behaviour of Steel Frame Structures
Authors 9	J. Mediavilla Varas & F. Soetens
Title 10	Bayesian Probabilistic Assessment of in-situ Concrete Strength
Authors 10	L. O. Santos, L. Jacinto & L. C. Neves

Session	2D
Location	casinò-sala mosaici 2
Theme	Ethics and social Responsibility
Chair	Boegle Annette; Roman Geier
Title 1	German Railway Bridges - New Paths of Conceptual Design
Authors 1	M. Weißbach, T. Fackler, A. Goldack, J. Schlaich & A. Keil
Title 2	What Do We Mean by 'Ethics' in Engineering
Authors 2	R. Silman
Title 3	The Real Price – Holistic Cost-Efficiency Considerations in Design and Construction of Infrastructure Projects
Authors 3	O. Fischer, F. Schneider, U. Willberg, K. Katz, A. Putz & W. Streit
Title 4	Measuring Sustainability: Tools for Transitioning to an Ecological Age
Authors 4	J. Anderson
Title 5	The Building Rehabilitation Case: Protection Against Seismic Risk.
Authors 5	N. Makhoul
Title 6	Forensic Engineering Ethics and Failures of Infrastructure Facilities
Authors 6	J. B. Kardon

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POSTER SESSION 3

THURSDAY SEPTEMBER 23; 10:30-11:00

Session	P3A
Location	casinò-salone adriatico
Theme	<i>Basis of Design</i>
Title 1	Huey P. Long Bridge – Span by Span Erection of Widening Trusses
Authors 1	J. P. Brestin
Title 2	PREON – the Flexible Standard in Hall Construction
Authors 2	O. Josat
Title 3	Maximizing Waters of the Niagara River for Power Generation: Challenges Constructing the Niagara Tunnel Intake Approach
Authors 3	E. Li & R. Everdell
Title 4	Arranging Geometric Configuration of Cable-Stayed Bridges Taking Fatigue into Account
Authors 4	A. Pipinato, G. Fregno, C. Modena & C. Pellegrino
Title 5	New Removable Bridge over the Bay of Cadiz
Authors 5	M. Escamilla, M. Sacaluga, G. Osborne, M. Martin, V. Vega & J. Cayetano
Title 6	Utilization of Recycled Rubber in Concrete Mix Design
Authors 6	C. A. Issa
Title 7	Planning and Design of Elevated Road for Aizawl City
Authors 7	R. Kapoor
Title 8	Infrastructure Management and Maintenance for Urban Environment Quality and Sustainability. Olympic Assets
Authors 8	D. Ladiana & M. Di Sivo
Title 9	Rehabilitation of an Industrial Building in Three Different Solutions
Authors 9	C. Campian & N. Chira
Title 10	Critical Aspects in Designing Earthquake-Resistant Dual Systems
Authors 10	M. Mezzi & F. Comodini
Title 11	Second Gateway Bridge, Brisbane, Australia
Authors 11	J. Connal
Title 12	Exploration of Structural Performance of Stiffened Steel-Concrete Composite Beams with Perforated Stiffening Rib Plates
Authors 12	Z. Zhou & Y. Xu
Title 13	Exploration of Super-Long-Span Prestressed Steel Truss-Concrete Composite Continuous Rigid Frame Bridges
Authors 13	Z. Zhou & H. Xiang
Title 14	Exploration of Long-span Steel Box-concrete Composite Continuous Rigid Frame Bridges
Authors 14	Z. Zhou & H. Xiang
Title 15	Design and Construction of Arch Bridge with Variable Steel-Concrete Composite Section Based on Vertical Erection-Rotation Method
Authors 15	Z. Zhou & Y. Xu

Session	P3B
Location	casinò-salone adriatico
Theme	<i>Management and Planning of Operation and Maintenance</i>
Title 1	New Design Proposal for Simplified Maintenance of Open-Type Wharf
Authors 1	Y. Kawabata, M. Iwanami, M. Furuichi, H. Yokota & E. Kato
Title 2	Statistical Deterioration Prediction Model for Individual Infrastructure Considering its Heterogeneity
Authors 2	K. Kaito & K. KOBAYASHI
Title 3	Assessment of in-place Concrete Strength According to the Major Standards
Authors 3	F. Bencardino & L. Rizzuti
Title 4	Reconstruction of the New Station Square in Berne, Switzerland
Authors 4	D. Joray & M. Diggelmann
Title 5	Fastening Systems Applications in Rehabilitation of Historical Buildings and Structures
Authors 5	A. Casagrande
Title 6	Construction Phases and Reception Tests of the New Cable-Stayed Bridge over the Adda River (Northern Italy)
Authors 6	C. Gentile & R. Gentile

Session	P3C
Location	casinò-salone adriatico
Theme	<i>Infrastructure Hazard and Safety Concepts</i>
Title 1	When the Going Gets Tough the Tough Gets Going: Skyhook Structural Control of A Suspended Bridge Under Strong Wind Excitation
Authors 1	L. Martinelli, M. Domaneschi & M. Romano
Title 2	Confidence Intervals on Modal Parameters in Stochastic Subspace Identification
Authors 2	M. Döhler, L. Mevel & B. X. Lam
Title 3	Modular Subspace-Based System Identification and Damage Detection on Large Structures

Authors 3	M. Döhler & L. Mevel
Title 4	Studies for Controlling Human-Induced Vibration of Two Nielsen-Truss Footbridges in Malaga (Spain)
Authors 4	J. Jimenez & D. Gomez
Title 5	Physical Nonlinear Model Adaptation in Long-Term Structural Health Monitoring: Proposals of Experimental Studies on a Reinforced Concrete Beam
Authors 5	M. Schnellenbach-Held & B. Karczewski
Title 6	Civil Infrastructure as a Complex Interdependent System
Authors 6	V. Mujumdar
Title 7	Uplifting Slide Bearing(2) - Verification of Seismic Response by Tests -
Authors 7	A. Igarashi, T. Sato, M. Shinohara, Y. Kato, H. Uno & Y. Adachi
Title 8	Uplifting Slide Bearing (3) - Development of the Analytical Model -
Authors 8	A. Igarashi, T. Sato, M. Shinohara, Y. Kato, H. Uno & Y. Adachi
Title 9	Evaluation of the Effects of Transit of Subway Trains on Noise and Vibration Levels in the Surrounding Buildings
Authors 9	G. Canetta & B. Finzi
Title 10	Comparison Study on Model Selection of Small-Radius Curved Bridge
Authors 10	G. Dai & W. Liu
Title 11	Capacity Spectrum Analysis for the Seismic Performance of RC Bridge Piers in Terms of Ductility Parameters
Authors 11	Y. S. Chung, D. H. Lee, D. W. Yang & Y. H. Lee
Title 12	Shear Test on Full Scale Auxiliary Pier Columns Used in the Viaduct Construction Process
Authors 12	L. Anania, A. Badalà & S. Costa

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PARALLEL SESSION 3

THURSDAY SEPTEMBER 23; 11:00-12:30

Session	3A
Location	casinò-sala Perla
Theme	Basis of Design
Chair	Mola Franco; Mazzarolo Enrico
Title 1	Structural Performance of Large Timber King Post Truss Highway Bridge
Authors 1	H. Honda
Title 2	Consideration of Scale Effect in Concrete Members
Authors 2	M. Terai & K. Minami
Title 3	Modelling of a Major Composite Cable-Stayed Bridge
Authors 3	Y. Zhao, D. Xu & F. Xu
Title 4	Estimation of Extreme Climatic Thermal Actions in Concrete Structures
Authors 4	O. Larsson
Title 5	Tianxingzhou Bridge: World Record Span for Railway Cable-Stayed Bridges
Authors 5	S. Montens, P. Moine, J. C. Vallery & H. Lam
Title 6	Structural Safety of Reinforced Concrete Structures Designed Following the ACI 318 Code
Authors 6	S. Tabsh
Title 7	New Approach for Bridges with Very High Durability
Authors 7	J. Berger & J. Kollegger
Title 8	Nuremberg Metro Line U3 Northwest Extension Stations and Tracks in Inner-City Areas
Authors 8	P. Seitz, R. Reitberger & J. Schöppler
Title 9	Design Methods for Buckling of Steel Tied Arch Bridges
Authors 9	P. Van Bogaert, K. Schotte, D. Stael, H. De Backer & A. Outtier
Title 10	Research on the Structural System of Super 1000m Cable-Stayed Bridges
Authors 10	R. C. Xiao, B. Sun, D. L. Zhuang & L. J. Jia

Session	3B
Location	casinò-sala delle Feste
Theme	Basis of Design
Chair	Zordan Tobia; Zhang Qilin
Title 1	Textile Reinforced Ceramic Composites for Structural Infill Slab Applications
Authors 1	S. Lubell & S. Tassew
Title 2	Long-Term Monitoring of Temperatures in Steel Box Girders
Authors 2	P. Van Bogaert, H. De Backer, B. De Pauw & A. Outtier
Title 3	A Design Procedure for the Seismic Protection of Infilled Frames by Dissipative Braces
Authors 3	A. V. Bergami & C. Nuti
Title 4	Crossing the Funder Valley Using the Patented Match-Cast Incremental Launching Method
Authors 4	P. Seitz, H. Hauser, C. Von Scholten & C. N. Hansen
Title 5	An Evaluation of the Prediction of Flat Slab Deflections
Authors 5	J. A. Wium & E. M. Eigelaar
Title 6	Structural Response of Spatial Arches with Imposed Curvature
Authors 6	A. C. Aparicio, M. Sarmiento & A. M. Ruiz-Teran
Title 7	Design Procedure for Plane Elements with Skew Reinforcement
Authors 7	M. Schulz & E. S. S. Oliveira
Title 8	A Parametric Study on the Ultimate Behaviors of Multi-span Suspension Bridges
Authors 8	H. S. Na, D. H. Choi, C. Moon, D. H. Yoo & S. G. Gwon
Title 9	Practical Design of Continuous Two Main-Span Suspension Bridge in Korea
Authors 9	H. Choi, K. Jaehong, J. Jung & J. Baek
Title 10	Expansion Joints for Urban Bridges – Quiet, Reliable and Low Maintenance
Authors 10	C. O'Suilleabhain, G. Moor & T. Spuler

Session	3C
Location	casinò-sala mosaici 1
Theme	Infrastructure Hazard and Safety Concepts
Chair	Borri Claudio; Reccia Emanuele
Title 1	Reliability of Exceptional Structures
Authors 1	I. Lukacevic, D. Skejic & J. Piskovic
Title 2	Identification of Wind-Excited Suspension Bridges for SHM: a Feasibility Study
Authors 2	F. Ubertini, R. Betti, A. L. Hong & A. L. Materazzi
Title 3	Aerodynamic Behaviour of Very Long Cable-Stayed Bridges During Construction
Authors 3	G. Morgenthal
Title 4	The Behaviour Analysis of RC Frame Structure Under Explosion Loadings
Authors 4	C. Bucur, C. Baciuc & M. Lupoae
Title 5	Network-Level Seismic Risk Management of Regional Road Infrastructure
Authors 5	D. Zonta, F. Bortot, R. Zandonini & Y. Yue
Title 6	Seismic Mitigation of the Asce Cable-Stayed Bridge

Authors 6	L. Martinelli & M. Domaneschi
Title 7	The Instrumentation and Monitoring of the Vårby Bridge
Authors 7	K. Eriksson, M. Nilsson, P. Collin & G. James
Title 8	System Reliability Evaluation of Long-Span Cable-Stayed Bridges
Authors 8	J. Cheng, R. C. Xiao & X. L. Liu
Title 9	Safety Against Tunnel Fire of Post-Installed Reinforcement
Authors 9	J. Kunz
Title 10	The Behavior of Rion – Antirion Bridge Seismic Protection System During the Earthquake of “Achaia-Ilia” on June 8, 2008
Authors 10	S. Infanti, A. Stathopoulos-Vlavis & P. Papanikolas

Session	3D
Location	casinò-sala mosaici 2
Theme	Management and Planning of Operation and Maintenance
Chair	Zlatko Savor; Foraboschi Paolo
Title 1	Combination of Multiple Non-Linearities in Structural Modelling, Simulation and Assessment Work
Authors 1	H. Wenzel
Title 2	The Refurbishing of the Nibelungen Bridge Worms, Germany
Authors 2	E. Pelke
Title 3	Sustainable Bridges – Results from a European Integrated Research Project
Authors 3	L. Elfgrén, J. Olofsson, B. Paulsson, H. Hedlund, B. Täljsten & B. Bell
Title 4	Impact Absorbing Damper to Suppress Bridge Vibration at Joints
Authors 4	S. Nakamura, T. Osafune & K. Tanaka
Title 5	Strengthening Large Concrete Box-Girder Bridge on Shear
Authors 5	R. Vergoossen, C. Kuilboer & H. Sliedrecht
Title 6	Influence on Detailing on Shear Capacity in Existing Concrete Viaducts
Authors 6	R. Vergoossen & H. Sliedrecht
Title 7	Introduction of non-Destructive Highway Inspection Methods Using High Definition Video and Infrared Imaging Technology
Authors 7	M. Matsumoto, K. Hashimoto, M. Sugimoto, Y. Nagao & L. Ahlström
Title 8	Seismic Retrofit Design for a Network Arch Bridge with Energy Absorbing Devices
Authors 8	K. Sugioka, H. Kobayashi, H. Matsushita & N. Mashima
Title 9	Shaking Table Test of Viaduct Model and its Numerical Analysis Focusing on Damping Modeling
Authors 9	A. Nakajima, H. Yokokawa & M. Kasamatsu

PARALLEL SESSION 4

THURSDAY SEPTEMBER 23; 13:30-15:00

Session	4A
Location	casinò-sala delle Feste
Theme	Basis of Design
Chair	Zandonini Riccardo; Lan Cheng
Title 1	The Application of Concrete Dowels in Large Structures
Authors 1	I. Mangerig & R. Wagner
Title 2	Monitoring Based Evaluation of Design Criteria for Concrete Frame Bridges
Authors 2	K. Bergmeister, R. Wendner, D. M. Frangopol & A. Strauss
Title 3	Improvement of Damage Equivalence λ -Factors for Railway Steel Bridges
Authors 3	P. Croce
Title 4	The Design of Post-Tensioned Concrete Box Girders to Eurocodes
Authors 4	A. Low
Title 5	Evaluation of Time History of Design Wind Speeds Using Typhoon Model and Empirical Wind Characteristics
Authors 5	M. Matsui, Y. Tamura & T. Ohkuma
Title 6	Reduced Stress Method for Class 4 Steel Section
Authors 6	M. Majowiecki & S. Pinarci
Title 7	Structural Optimization for Free Form Design
Authors 7	M. Majowiecki & M. Petrucci
Title 8	Dynamic Response of Bridge System with Knocking-Off Members
Authors 8	M. Matsumura, M. Yoshida & N. Ochi
Title 9	Solutions Regarding the Impact of Large Structures Upon Public Space - Multi-Functional Hall - Cluj-Napoca, Romania - Case Study
Authors 9	R. V. Dragan, B. Petrina, M. Petrina, N. Socaciu & A. Iancu
Title 10	Bond Behavior at the Interface in Concrete Elements Strengthened with NSM Bars and Strips
Authors 10	F. Ceroni, M. Pecce, A. Bilotta, M. Di Ludovico & E. Nigro

Session	4B
Location	casinò-sala mosaici 1
Theme	Infrastructure Hazard and Safety Concepts
Chair	Ma Rujin; Ruan Xin
Title 1	Uplifting Slide Bearing (1) -Characterization of Dynamic Properties-
Authors 1	A. Igarashi, T. Sato, M. Shinohara, Y. Katou, H. Uno, Y. Adachi & T. Takahashi
Title 2	An Application of Bragg Grating Array to Measure Real-Time Scour Depths at River Bridges
Authors 2	G. Crotti, F. Inzoli, F. Ballio, A. Cigada & S. Manzoni
Title 3	Performance-Based Analysis of Steel Structures with Semi-Rigid Connections
Authors 3	A. G. Popa & A. E. Mahe
Title 4	Uplifting Slide Bearing (4) -Application for a 3-Span Steel Girder-
Authors 4	A. Igarashi, T. Sato, M. Shinohara, Y. Katou, H. Uno & Y. Adachi
Title 5	In Situ Tests on Steel Deck Concrete Composite Slabs at Zurich Airport
Authors 5	M. Knobloch, M. Klippel & M. Fontana
Title 6	Damping System for Existing and New Structures
Authors 6	P. Egger, J. Kollegger & A. D. Hartmann
Title 7	Perimetral Joint Effects on Stress Distribution and Seismic Behavior of Arch Dams
Authors 7	H. Mirzabozorg, A. Amirpour & M. A. Hariri.A
Title 8	Reliability Differentiation in ULS Checks According to EN1990
Authors 8	P. Croce, H. Gulvanessian & P. Formichi
Title 9	Research on the Collision Force Between Ships and the Piers of Fengjie Yangtze River Bridge
Authors 9	Q. L. Zhang & G. H. Xiao
Title 10	Parametric Evaluation of Seismic Damage on Curved Highway Viaducts Under Near-Fault Earthquakes
Authors 10	C. Mendez G. & T. Hayashikawa

Session	4C
Location	casinò-sala mosaici 2
Theme	Management and Planning of Operation and Maintenance
Chair	Santos Luís Oliveira; Baochung Chen
Title 1	Long-Term Prediction of Bridge Element Performance Using Time Delay Neural Networks (TDNNs)
Authors 1	J. Lee, Y. C. Loo, H. Guan & M. Blumenstein
Title 2	Maintenance of Important Infrastructures – Objectives and Strategies
Authors 2	G. Dette & V. Sigrist
Title 3	Methodology to Determine Financial Needs of River Structures
Authors 3	B. T. Adey & R. Hajdin
Title 4	Knowledge-Based Expert System for Strengthening Measures of Road Bridges
Authors 4	A. Karakas & J. Hegger
Title 5	Developing 5D System Connecting Cost, Schedule and 3D Model
Authors 5	J. Doyoung, B. Yeongin, K. Jaehong, H. Kim, N. Dawood & C. Benghi

Title 6	Innovative Methods for Railway Steel Bridge Remaining Life Estimation
Authors 6	A. Pipinato, M. Gueli, C. Modena & C. Pellegrino
Title 7	Structural Identification of Bridges: Monitoring, Maintenance and Repair
Authors 7	C. C. Comisu & G. Boaca
Title 8	Improvement of Serviceability by Strengthening with Prestressed NSM
Authors 8	A. Vorwagner & S. L. Burtscher
Title 9	Monitoring of the Vienna Erdberger Bridge
Authors 9	R. Geier

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POSTER SESSION 4

THURSDAY SEPTEMBER 23; 15:00-15:30

Session	P4A
Location	casinò-salone adriatico
Theme	<i>Basis of Design</i>
Title 1	Two "Deck-on-Piles" Bridges in Lagos (Nigeria)
Authors 1	L. Hepkema
Title 2	A Feasibility Study: Crossing of the Sognefjord with a Fixed Connection
Authors 2	L. Skorpa
Title 3	Structural Behaviour of Composite Sandwich Panels for Civil Engineering Applications
Authors 3	J. Ramôa Correia, J. Gonilha, I. Almeida & F. Branco
Title 4	Environment Effects of Urban Construction and the Prevention Measures
Authors 4	G. H. Xiao, Q. L. Zhang & C. Huang
Title 5	New Low-Rigidity Design for Widening of Elevated Bridges
Authors 5	Y. Takamura, K. Sakiya & Y. Adachi
Title 6	StructuralComponents - A Toolbox for Conceptual Structural Design
Authors 6	A. Rolvink, J. Coenders & J. Breider
Title 7	Durable and Robust Concrete Bridges for the PPP-Project E18 in Norway
Authors 7	G. Zehetmaier & A. Krill
Title 8	High Performance Materials for Pendulum Sliding Bearings
Authors 8	V. Quaglini & P. Dubini
Title 9	Current Limits of PTFE in Sliding Bearings
Authors 9	V. Quaglini, P. Dubini, C. Tavecchio, D. Ferroni & D. Cuminetti
Title 10	Unbalanced Application of Wind Stabilizing Cables for the Free Cantilevered Construction of a Cable-Stayed Bridge
Authors 10	H. K. Kim, G. T. Kim, J. Park & S. H. Lee
Title 11	Structural Modelling of the Piers of the Paderno D'Adda Bridge (1889, Italy)
Authors 11	E. Rizzi, R. Ferrari & M. Facheris
Title 12	Autoroute A-25 Project – Main Bridge Innovations
Authors 12	J. Viola & T. Spoth
Title 13	Form and Structural Invention in the Work of Riccardo Morandi
Authors 13	L. Sampò
Title 14	A Numerical Algorithm to Predict the Behaviour of Cracked R.C. Members
Authors 14	P. Croce, M. L. Beconcini & P. Formichi

Session	P4B
Location	casinò-salone adriatico
Theme	<i>Infrastructure Design as a meeting point for Architecture and Engineering</i>
Title 1	Structural and Architectural Design of Complex-Shaped Structures in Seismic Regions: Early Stages from a Practical Perspective
Authors 1	A. Lago & M. Veltkamp
Title 2	Stormwater Tanks Option in Remediation of Candiano Head Channel Area at Ravenna: Functions, Design, Environmental Impact
Authors 2	M. L. Mancini & G. L. Bragadín
Title 3	A New Landmark Arch Bridge in Milan
Authors 3	P. G. Malerba, P. Galli & M. Di Domizio
Title 4	Case Study of Bus Rapid Transit Bridges in Xiamen, China
Authors 4	H. Qin & X. He
Title 5	Innovatively Engineered and Architectural Infrastructure Development in a Dense Urban Corridor
Authors 5	N. Desai
Title 6	New Urbanism - an Approach Towards Developing Indian Contemporary Cities
Authors 6	S. Sharma & P. Sharma
Title 7	A Comparison amongst Different Shape Control Methods for Shell Optimization
Authors 7	M. Trocker, E. Marino & C. Borri
Title 8	The Huge Enlargement with R.C. Structure of the Shrine of Pompeii in Italy (1933-1939): a Technological, Architectonic and Cultural Challenge
Authors 8	V. Sepe, P. Petillo & S. Carillo
Title 9	New Fredrikstad Bascule Bridge, Norway
Authors 9	S. Jakobsen, J. Reusink & D. Ytreberg
Title 10	Cartagena Auditorium Facades: a New Structural and Sustainable Skin System
Authors 10	J. Romo & J. M. Lastra
Title 11	Riudellots High Speed Line Bridge
Authors 11	J. Romo
Title 12	Brief Considerations on the Accademia Bridge in Venice
Authors 12	L. Skansi, U. Barbisan & M. Pogacnik
Title 13	Bridges in Venice - Architectural and Structural Engineering Aspects
Authors 13	M. De Miranda, L. Skansi & M. Pogacnik

Session	P4C
Location	casinò-salone adriatico
Theme	<i>Management and Planning of Operation and Maintenance</i>
Title 1	Assessment and Strengthening of a Composite Structure
Authors 1	S. Dan, A. Gruin, C. Badea, C. Bob, S. Marginean & T. Dencsak
Title 2	Performance Assessment and Maintenance of Masonry Arch Bridges
Authors 2	P. Kumar
Title 3	Expansion Joint Renewal with 'Zero' Impact on Traffic - an Optimal Solution for Urban Bridges
Authors 3	C. O'Suilleabhain, G. Moor & T. Spuler
Title 4	Steel Bridge SHM in Isfahan: Bridge over Zayandehrod River
Authors 4	A. Gharighoran & F. Daneshjoo
Title 5	Non-Destructive Technologies for the Maintenance of Underground Utilities.
Authors 5	D. Ladiana & M. Di Sivo

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PARALLEL SESSION 5

THURSDAY SEPTEMBER 23; 15:30-17:00

Session	5A
Location	casinò-sala delle Feste
Theme	Basis of Design
Chair	Wang Dalei; Xue Junqing
Title 1	Optimized Design for Soil-Pile Interaction and Abutment Size of Integral Abutment Bridges
Authors 1	C. Lan, T. Zordan & B. Briseghella
Title 2	Offshore Floating Platform for Renewable Wind Energy
Authors 2	N. Cosentino & D. Comand
Title 3	Precast Spun Concrete Piers of Road Bridges and their Probability-Based Design
Authors 3	R. Kliukas & A. Kudzys
Title 4	The New Fornello Viaduct: Method of Seismically Strengthening the Piers and Replacing the Deck without Interrupting the Traffic
Authors 4	R. Di Marco & M. Mele
Title 5	Static and Dynamic Friction in Curved Surface Sliders
Authors 5	C. Butz & C. Braun
Title 6	Shear Buckling Resistance of Non-Uniform Thickness Bridge Girder Webs
Authors 6	P. Collin & M. Möller
Title 7	Fiber Reinforced Polymer Confinement of Bridge Columns Suffering from Premature Bars' Buckling – Strength Empirical Model
Authors 7	T. Rousakis & A. Karabinis
Title 8	Indirectly Supported Bridges – Large-Scale Experiment
Authors 8	C. Bueeler & K. Thoma
Title 9	Failure Analysis of a Long-Span Pre-Stressed Concrete Box Girder Bridge
Authors 9	X. Ruan, X. Shi & X. Li
Title 10	Bond-Slip Modelling in Long Anchorage Condition
Authors 10	E. Mazarolo, R. Scotta, A. Saetta & B. Luisa

Session	5B
Location	casinò-sala mosaici 1
Theme	Infrastructure Design as a meeting point for Architecture and Engineering
Chair	Van Der Horst Aad ; De Miranda Mario
Title 1	Traversina Footbridge – A Wooden Stairway Crossing a Gorge
Authors 1	T. Vogel & J. Conzett
Title 2	Structural – Architectural Approach to Bridge Design
Authors 2	M. Kušter, B. Kincl & J. Radic
Title 3	Danube Bridge Tulln - A New Bridge with Innovative Concept
Authors 3	G. Dorrer & J. Fink
Title 4	Structural Art and Aesthetics of Architecture at Impressive Mega-Stations
Authors 4	E. M. Kido
Title 5	Urban Bridges – Latest Experiences in Andalusia
Authors 5	M. Escamilla, G. Osborne, A. Castillo, C. Calleja, G. Montero & F. J. Ramirez
Title 6	Third Millennium Bridge over the Ebro River, Zaragoza, Spain
Authors 6	J. J. Arenas, J. Martinez, H. Beade & G. Capellan
Title 7	Sustainable and Quake-Resistant Façade for Existing Buildings
Authors 7	Y. Misawa, M. Nakamura, S. Iwamoto, M. Iwata & S. Hikone
Title 8	Eco-Sustainable Reuse of "Constantinopoli" Quarry in Sala Consilina (Italy)
Authors 8	F. Lembo, N. Casale & F. Marino
Title 9	Trillizos Bridges (the Triplets) in La Paz, Bolivia
Authors 9	J. A. Sobrino
Title 10	Tensegrity Bridge with Prestressed Deck
Authors 10	L. Fenu, B. Briseghella, T. Zordan & W. Huang

Session	5C
Location	casinò-sala mosaici 2
Theme	Management and Planning of Operation and Maintenance
Chair	Limswan Ekasit; Pallaoro Stefania
Title 1	Approach for the Life-Cycle Management of Structures Including Durability Analysis, SHM and Maintenance Planning
Authors 1	P. Furtner & R. Veit- Egerer
Title 2	Prioritization Strategy for Replacing Florida's Deck Panel Bridges
Authors 2	R. Sen, I. Gualtero, N. Pai, A. Alvi & G. Mullins
Title 3	Dynamic Measurement on Stay-Cables Using Microwave Interferometry
Authors 3	C. Gentile
Title 4	The Research of Numerical Simulation of Concrete Durability
Authors 4	A. Chen & Z. Pan
Title 5	Change in Mechanical Properties of Early-Age Concrete under Repetitive Compressive Stress

Authors 5	K. Onoue, R. Sukita, F. Imai & T. Nakazawa
Title 6	Condition Assessment of a Steel Plate Girder Railway Bridge
Authors 6	A. Ramaswamy & J. M. C. Kishen
Title 7	Experimental Investigation of the Seismic Response of Repaired R.C. Bridges by Means of Pseudodynamic Tests
Authors 7	S. Santini, D. Lavorato & C. Nuti
Title 8	Recent Advances in Dynamic Testing and Continuous Dynamic Monitoring of Large Bridges
Authors 8	Á. Cunha, J. Brownjohn, O. Flamand, G. Grillaud, F. Magalhães & E. Caetano
Title 9	Impact of New Design Codes on Assessment and Redesign of Reinforced Concrete Existing Structures in Seismic Regions
Authors 9	S. Dan, C. Badea & C. Bob

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PARALLEL SESSION 6

FRIDAY SEPTEMBER 24; 09:00-10:30

Session	6A
Location	casinò-sala Perla
Theme	Basis of Design
Chair	Scotta Roberto; Zanchettin Alberto
Title 1	The Parametric Research of Prestressed Concrete Continuous Girder Bridge for High-Speed Railway
Authors 1	G. Dai & Z. Zhou
Title 2	Glass Roof with Load Bearing Glazing
Authors 2	B. Weller, S. Reich & J. Ebert
Title 3	Test and Analysis of the Precast Composite RC Shear Wall
Authors 3	J. Li, X. Lu & L. Liang
Title 4	Integral Bridge Abutment - Approach Embankment Interaction
Authors 4	O. Kerokoski & H. Petursson
Title 5	Active Aerofoil Stabilisation of Long Span Bridge Decks
Authors 5	J. Corney
Title 6	The European Standard on Anti-Seismic Devices
Authors 6	R. Medeot
Title 7	Compression Performance of Non-Dispersible Concrete Columns
Authors 7	W. Q. Zhong, H. T. Ren & M. S. Gang
Title 8	The Confidence to Build. Understanding and Analysis in the re-Use of Structures
Authors 8	B. Harvey
Title 9	Second Bay of Cadiz Bridge-Latest Construction Challenges
Authors 9	M. Escamilla, G. Osborne, M. Martin, A. Castillo, V. Jimenez & J. Cayetano
Title 10	A Proposed Live Load Model for Bridge Design in Venezuela
Authors 10	L. B. Fargier G.

Session	6B
Location	casinò-sala delle Feste
Theme	Management and Planning of Operation and Maintenance
Chair	Sun Limin; Russo Salvatore
Title 1	Structural Assessment of ASR/DEF-Affected Bridge Bent Caps
Authors 1	D. Deschenes & O. Bayrak
Title 2	Construction Process Analysis of Lianyungang Suspen Dome
Authors 2	Y. Zhang, L. Chen & Q. Zhang
Title 3	Structural Health Monitoring – Saving Disruptive Works on Urban Bridges
Authors 3	T. Spuler, R. Berger & G. Moor
Title 4	Long Term Dynamic Monitoring of a PSC Box Girder Bridge
Authors 4	C. Cremona & A. Cury
Title 5	A New Type of Intelligent Wireless Sensing Network for Health Monitoring of Long Span Bridges
Authors 5	Y. Lei, Z. L. Lai, Y. L. Tang, J. X. Wang & L. J. Liu
Title 6	Structural Performance of RC Beams Strengthened by SRG and FRCM System
Authors 6	F. Bencardino & L. Ombres
Title 7	Dynamical Tests and Analysis for the Assessment of Structural Conditions of Bridges
Authors 7	F. Vestroni & F. Benedettini
Title 8	Bridge Management by Modelling, Monitoring and Experimental Research
Authors 8	C. Bosma, E. A. B. Koenders, B. Obladen, K. Van Breugel & H. F. Galenkamp
Title 9	Thermal Effects in the Long-Term Monitoring of Bridges
Authors 9	O. L. Burdet
Title 10	
Authors 10	

Session	6C
Location	casinò-sala mosaici 1
Theme	Infrastructure Hazard and Safety Concepts
Chair	Maier Giulio; Di Marco Roberto
Title 1	Design Assisted by Wind Tunnel Testing
Authors 1	N. Cosentino & M. Majowiecki
Title 2	Wind Assessment for the Design of Structures and Glass Facades of a Very Large Convention Building
Authors 2	C. Borri, L. Procino, A. Borsani, G. Bartoli & G. Peli
Title 3	Influence of Wind Barrier on Wind-Resistant Performance on Some Cable-Stayed Bridges through Wind Tunnel Testing
Authors 3	A. Chen, D. Wang & R. Ma
Title 4	Critical Temperatures for Splitting of FRP-reinforced Concrete with Thermal Expansion
Authors 4	T. Pothisiri
Title 5	Application of Tuned Mass Control Systems for Earthquake Protection
Authors 5	C. Meinhardt & D. Siepe
Title 6	A Case Study in L'Aquila, Italy, for Evaluating the Effects of Masonry Infills on the Seismic Behavior of R.C. Frame

	Structures
Authors 6	G. Gasparini, T. Trombetti, L. Landi, I. Ricci & S. Silvestri
Title 7	Creep Analysis of Encased CFST Arch Bridges, a Case Study of Wanxian Yangtze River Bridge
Authors 7	K. M. Shrestha & B.C. Chen
Title 8	Analysis of Highway Vehicle Load in China Based on WIM Data
Authors 8	X. Ruan, X. Shi & T. Ying
Title 9	New developments in Tunnel Building: the "TISB", "TMG" and "TMF" Concepts
Authors 9	S. P. Santos
Title 10	On Structural Diagnosis and Material Characterization by new Experimental and Inverse Analysis Procedures
Authors 10	G. Maier, V. Buljak & G. Novati

Session	6D
Location	casinò-sala mosaici 2
Theme	Infrastructure Design as a meeting point for Architecture and Engineering
Chair	Goldack Arndt; Dezi Luigino
Title 1	New Developments in Brazilian Cable Stayed Bridges
Authors 1	M. De Miranda
Title 2	New Bridge Across Sava River in the Scope of Belgrade Inner Semi-Ring Road
Authors 2	B. Stipanac, N. Hajdin, Z. Rubinjoni & M. Kozlovic
Title 3	Unconventional Structural Forms in Pedestrian Bridges Design
Authors 3	P. Basso & A. E. Del Grosso
Title 4	The New Juventus Stadium in Turin
Authors 4	M. Majowiecki, S. Pardini & F. Ossola
Title 5	Odin's Bridge
Authors 5	K. Thomsen & H. J. Larsen
Title 6	Oosterweel Link & Nijmegen City Bridge: Two Examples of an Integral Approach to Large-scale Infrastructure Projects in an Urban Context
Authors 6	K. Verbeeck, L. Ney & C. Poulissen
Title 7	20 Years of Development of Large Transparent Free-Form Envelopes
Authors 7	N. Baldassini
Title 8	Toward 21st Century Bridge Design through Collaborative Creative Process
Authors 8	N. K. Hong, S. G. Hong & H. M. Koh
Title 9	Two Large Bridge Projects in Environmentally Constrained Areas
Authors 9	A. Reis
Title 10	Wooden Cable-Stayed Footbridge with Curved Carriageway in Urbanised Area
Authors 10	M. A. Demarzo, E. Pletz & F. A. R. Lahr

POSTER SESSION 5

FRIDAY SEPTEMBER 24; 10:30-11:00

Session	P5A
Location	casinò-salone adriatico
Theme	<i>Basis of Design</i>
Title 1	Applications of Disk Bearings on Large Structures
Authors 1	R. J. Watson
Title 2	Design Optimization of Road Continuous Girder Bridges
Authors 2	R. Luciano, A. Grimaldi & R. Grimaldi
Title 3	Gwangyang Bridge – Numerical Simulation of Construction Sequence
Authors 3	D. Janjic, C. Hyun-Sok & J. Bong-Gyo
Title 4	Modern Approach in Concrete Segmental Design
Authors 4	D. Janjic, G. Strelkelj & J. Stampler
Title 5	Towards Wider Use of the Accidental Load Case
Authors 5	S. Alexander
Title 6	Comparative Assessment of Enhanced Multi-Mode Pushover Analysis Methods for Performance Based Design
Authors 6	A. Kusuma & N. Anwar
Title 7	Pull-Out Experimental Testing on Ribbed Bars Produced in Coils
Authors 7	F. Tondolo, G. Mancini & C. Bosco
Title 8	Conceptual Design of Double-Deck Traffic for City Bridge
Authors 8	K. Li & J. Sun
Title 9	Structural Design of the Japan Pavilion in Shanghai Expo
Authors 9	M. Ohno
Title 10	Dynamic Condensation of Structural Systems
Authors 10	O. Manfroni, G. Tiraferri & D. Rocchi
Title 11	Stiffness-Strength-Ductility Design Approach: an Application to a Five-Storey Steel Building Structure
Authors 11	G. Gasparini, T. Trombetti, I. Ricci & S. Silvestri
Title 12	Correlations Between Experimental Results of Pseudo-Static Tests with Cyclic Horizontal Load on Concrete/Polystyrene Sandwich Bearing Panels and their Analytical Counterparts
Authors 12	C. Ceccoli, G. Gasparini, T. Trombetti, I. Ricci & S. Silvestri
Title 13	Design and Optimization of a Long Span Concrete Filled Steel Tubular Arch Bridge
Authors 13	K. Hu, X. Ruan & X. Shi

Session	P5B
Location	casinò-salone adriatico
Theme	<i>Infrastructure Design as a meeting point for Architecture and Engineering</i>
Title 1	The Alignment, the Link Between the Bridge and the Landscape
Authors 1	A. Low
Title 2	A Curved Self Anchored Suspension Bridge
Authors 2	J. Tognoli & D. Fitzwilliam
Title 3	Closing the Gap Between Bridge Analysis and Detailing
Authors 3	D. Janjic, V. Samec & J. Stampler
Title 4	Don Bosco Bridge at Arenaccia: Structure, Art and Architecture
Authors 4	A. De Luca, A. De Martino, G. Lucibello & G. Mautone
Title 5	A Lightweight Suspension Footbridge Lights New Urban Perspectives: the Porta d'Europa in Padova
Authors 5	T. Morbiato, R. Vitaliani & I. Rossi
Title 6	The Dynamic Investigation of the Cultural Heritage Buildings in Vilnius City
Authors 6	A. Jaras, R. Kliukas & R. Kačianauskas
Title 7	The Heritage Bridges of the Gardesana Occidentale Lake Garda, Italy
Authors 7	F. Zezza & A. Villanova
Authors 15	

Session	P5C
Location	casinò-salone adriatico
Theme	<i>Infrastructure Hazard and Safety Concepts</i>
Title 1	Optimisation of the Acquisition Points in Wind Tunnel Pressure Measurements
Authors 1	L. Procino, L. Facchini, A. Borsani & G. Bartoli
Title 2	Vulnerability Assessment of a Concrete Bridge through Fuzzy Logic Analysis of Visual Inspection Compared to Chemical Inspection.
Authors 2	F. Mistretta, M. V. Piras & L. Deias
Title 3	Mechanical Effects of Floods on River Bridge Pier Foundations
Authors 3	F. Federico
Title 4	Influence of Bridge Vehicle Interaction on Bridge's Subsystems Considering Road Roughness

Authors 4	G. Karaki
Title 5	Analytical Study on Seismic Performance of Column with Secondary Wall
Authors 5	H. Noguchi & T. Kashiwazaki
Title 6	Experimental Study on the Behavior of Steel-Concrete Composite Arch Ribs to Combined Bending and Compression
Authors 6	L. Fan & Z. Zhou
Title 7	The Actions of Axial Loads on Masonries – Ultrasonic Verifications and Statistical Analysis of Obtained Data
Authors 7	A. Khodaverdian & B. Shomali
Title 8	Identification of Uniform Hazard Time-Histories for Seismic Design
Authors 8	G. Gasparini, T. Trombetti & S. Silvestri
Title 9	Approach and Methodology in Understanding the Structural Behaviour of Historic Arch Bridges through Dynamic Monitoring: the Case of Rialto Bridge in Venice
Authors 9	G. Boscato, A. Di Tommaso, F. Guerra, L. Lazzarini, A. Mazzucato, M. Pizzolato, S. Russo, F. Sciarretta & E. Sperotto

Session	P5D
Location	casinò-salone adriatico
Theme	<i>Ethics and social Responsibility</i>
Title 1	Bridges in the Townscape – Poetics of the Image
Authors 1	A. Bonenberg
Title 2	Subcontract and Distribution of Process Responsibilities
Authors 2	F. Melis, C. Argiolas & E. Quaquero
Title 3	New Urban Bridge as a Socially Responsible Public Space
Authors 3	O. Marina, B. Karanakov, T. Samardzioska & A. G. Trombeva

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