

Submission Id	Title	Topic	Authors	Presenting	SESSION
7	Inspection and retrofitting of Danube bridge - Ruse-Giurgiu - challenges and innovative approaches	2 - Regeneration, rehabilitation and adaptation of existing structures	Alexander Jiponov	Alexander Jiponov	C1
9	Investigation into the cause of cracks and the opportunity to refurbish steel Vierendeel railway bridges	2 - Regeneration, rehabilitation and adaptation of existing structures	Phillippe Van Bogaert, Hans De Backer, Bart De Pauw	Hans De Backer	C3
10	The effect of horizontal loads caused by rapidly rising river water on the bearing capacity of masonry arch bridges	3 - Designing for longevity, resilience and extreme events	Phillippe Van Bogaert, Hans De Backer	Hans De Backer	A1
14	Stainless steel as a structural material in the drive toward net-zero bridges	1 - Designing and building for net zero	Andrew Backhouse, Nancy Baddoo	Andrew Backhouse	D9
15	Influence of CO2 Emission Pricing on the Degree of Reuse in Building Projects	4 - Reducing waste - productivity, efficiency and resource economy	Lars Magnus Knutstadmarka Johnsen, Sigurd Lundberg	Lars Magnus Knutstadmarka Johnsen	A3
17	A Case Study on the Analysis and Rehabilitation of an Existing Through Arch Truss Bridge	2 - Regeneration, rehabilitation and adaptation of existing structures	Dillon Betts, Aaron Ferguson, Jorge Perez Armino, Will Cro	Aaron Ferguson	C3
21	Productivity increase in the design and construction of bridges	4 - Reducing waste - productivity, efficiency and resource economy	Johan Lagerkvist, Ola Lædre, Petra Bosch-Sijtsema, Fredri	Johan Lagerkvist	A9
22	New Precast Segmental High-Speed Railway Bridges from Lianyungang to Xuzhou: Donghai Viaduct and Daxu Viaduct	4 - Reducing waste - productivity, efficiency and resource economy	Chongju Peng, Binyi Dai, Wenbin Lei	Chongju Peng	A7
23	Design and detailing of durable and sustainable Post-Tensioning structures with polymer ducts according to fib bulletin no. 75	3 - Designing for longevity, resilience and extreme events	Klaus Lanzinger, Larry Krauser	Klaus Lanzinger	D8
25	Effect of column studs on column-pile joints in buildings without underground beams	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Keisuke Watanabe	Keisuke Watanabe	D5
26	The New Pooley Bridge - Reconnecting a Community	3 - Designing for longevity, resilience and extreme events	Héctor Beade-Pereda, Laura Langridge	Laura Langridge	A2
27	Reuse of cast-in-place concrete slabs in new structures	1 - Designing and building for net zero	Lukas Felber, Matthias Dietz, Ingo Müllers, Markus Nöldgen	Matthias Dietz	B4
28	Tensile strength of column-pile joints when using anchor plates	2 - Regeneration, rehabilitation and adaptation of existing structures	Tokuo Shimozono, Keisuke Watanabe, Kei Haraguchi, Tak	Tokuo Shimozono	C5
29	Estimation of Construction Year of Short to Medium Road Bridges in Zambia using Satellite Imagery	2 - Regeneration, rehabilitation and adaptation of existing structures	Bennie Hamunzala, Koji Matsumoto	Bennie Hamunzala	C2
32	Effect of Topology Optimization Parameters on Additively Manufactured Space Frame Nodes	4 - Reducing waste - productivity, efficiency and resource economy	Luke Farrugia, Jeanette Muñoz Abela	Luke Farrugia	A3
33	Analysing embodied carbon for rural trail bridges in East Africa	1 - Designing and building for net zero	Nicola Turrini, Miriam Graham, Faustin Bajeneza, Lucy Crye	Lucy Cryer	B6
34	Efforts of Seismic Retrofit : The Future Challenge of Innoshima Bridge Beyond 40 Years of Service	3 - Designing for longevity, resilience and extreme events	Hongxin Wang, Takao Kaneda, Masahiro Nishitani, Yasuaki	Hongxin Wang	A1
36	Development of cold-bonded lightweight concrete aggregates using biowaste	4 - Reducing waste - productivity, efficiency and resource economy	Daia Zwicky, Julien Ston	Daia Zwicky	A3
37	Proposal for cable replacement method incorporating arch structure in aging cable-stayed bridges	2 - Regeneration, rehabilitation and adaptation of existing structures	Kazuhiro Miyachi, Masato Tonegawa, Shota Nagasawa	Kazuhiro Miyachi	C1
39	Bracklinn Falls Footbridge: Efficient Modular Design	1 - Designing and building for net zero	David Knight, Keith Brownlie, James Marks	David Knight	B3
40	Management of Corrosion Damage in Locked Coil Cables of the Galecopper Bridge: Case Study, Detection, Assessment, and Strengthening	2 - Regeneration, rehabilitation and adaptation of existing structures	Janwillem Breider, Charlotte Murphy, Richard Hornby	Janwillem Breider	C6
41	Fabrication's role in a world in emergency: reducing environmental impact by collaboration	1 - Designing and building for net zero	David Knight, Thomas Dutton, Dewi Uridge, Keefer Erickson	David Knight	B6
42	Advancements in Shear Resistance Prediction for Concrete Beams: A New Shear Model	3 - Designing for longevity, resilience and extreme events	Ke Hu, Xiangyong Duanmu, Dong Xu	Dong Xu	A6
43	Unified Explanation of Cracks for Long-Span Prestressed Concrete Box Girder Bridge Using Spatial Lattice Grid Model	2 - Regeneration, rehabilitation and adaptation of existing structures	Hao Zhang, Wei Dou, Dong Xu, Qinlong Jia	Dong Xu	C1
44	Data-driven and Production-oriented Tendering Design using Artificial Intelligence	6 - The essential value of competence, professionalism and ethics	Linda Cusumano, Rasmus Rempling, Robert Jockwer, Nilla	Linda Cusumano	B1
45	Reconstruction of a Ukrainian road bridge by use of 3D printed minimass™ beams	1 - Designing and building for net zero	Andy Coward, Torben Forsberg	Andy Coward	D4
46	Rehabilitation of the flood damaged Mhlali River Bridge and adaptation for improved resilience to extreme weather events	3 - Designing for longevity, resilience and extreme events	Mohamed Parak, Kerusha Ayer	Mohamed Parak	C8
47	Two-dimensional transient thermal analysis of drilled-pile wall exposed to extreme temperatures and discussion on frost mitigation methods.	3 - Designing for longevity, resilience and extreme events	Santeri Tammi, Summer Shahzad, Eero Särkkä, Mikko Hyyti	Summer Shahzad	A4
48	River Lea Crossing Refurbishment & Strengthening: A case study for refurbishment of an historic bridge	2 - Regeneration, rehabilitation and adaptation of existing structures	Michael Duvall, Andrew Hodgkinson	Michael Duvall	C3
49	Potential in the structural application of GFRP bars as an alternative reinforcement for recycled aggregate concrete slabs	4 - Reducing waste - productivity, efficiency and resource economy	Marina Traykova, Roumiana Zaharieva, Irina Kerelezova	Irina Kerelezova	A7
52	Hidden defects risk assessment at the Humber Bridge	2 - Regeneration, rehabilitation and adaptation of existing structures	John Collins, Peter Campbell, James Barnes	John Collins	C3
53	Humber Bridge side span rocker bearings replacement	2 - Regeneration, rehabilitation and adaptation of existing structures	John Collins, Peter Campbell, Mark Bulmer, James Barnes	John Collins	C6
54	A New Method for Calculating the Shear Stiffness of RC Beams with Web Diagonal Cracks	3 - Designing for longevity, resilience and extreme events	Wei Dou, Shengbin Wang, Yongxue Jin, Dong Xu	Dong Xu	A4
55	Extradosed Bridge Part of the Third Ring Road of Mecca - Conceptual Design	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Fernando Sima, Mike Schlaich, Maher Youakim, Essam Ay	Fernando Sima	D3
57	Unlocking Modularity Benefits with the Use of Precast Segmental Technology	4 - Reducing waste - productivity, efficiency and resource economy	Martin Rettinger, Sofia Moissiadis, Alex Hückler, Mike Schla	Martin Rettinger	D6
58	Strain Distributions for Shotcrete Failure in Hard Rock Tunnels	2 - Regeneration, rehabilitation and adaptation of existing structures	August Jansson, Ignasi Fernandez, Carlos Gil Berrocal, Ra	August Jansson	C5
61	Composite Effects Between Steel Girder and Orthotropic Steel Deck Connected by Shear Force Transferring Members During Deck Replacement Work	2 - Regeneration, rehabilitation and adaptation of existing structures	Sayuri Kitaichi, Mitsuru Shiratori, Kazusa Morikawa, Masaka	Sayuri Kitaichi	C3
64	Development and validation of a train-bridge interaction model	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Sharon Deceuninck, Hans De Backer	Sharon Deceuninck	D1
65	Evaluation of the behaviour of old beam-plate bridges	2 - Regeneration, rehabilitation and adaptation of existing structures	Hans De Backer, Amelie Outtier, Muhammad Farjad Sami	Muhammad Farjad Sami	C1
68	An Anti-corrosion Method for Concrete Slab with Cathodic Protection	2 - Regeneration, rehabilitation and adaptation of existing structures	Eri Suzue	Eri Suzue	C5
72	Assessing the carbon footprint of bridges and a strategy to deliver carbon reductions	1 - Designing and building for net zero	Philip Chalk, Joe Stevenson	Philip Chalk	B4
75	Teaching Reuse of Existing Structures at the University of Sheffield	2 - Regeneration, rehabilitation and adaptation of existing structures	Richard Harpin, Jon Carr	John Carr	B9
77	Bridge Rehabilitation with Thermal Spray Zinc Coatings	2 - Regeneration, rehabilitation and adaptation of existing structures	Martin Gagné, Martin van Leeuwen, Bernardo Duran	Martin Gagné	B8
79	Load Bearing Behavior of 3D Printed Prestressed Segmental Concrete Girders	1 - Designing and building for net zero	Marc-Patrick Pflieger, Elisabeth Radl, Osman Eseballi, Mark	Marc-Patrick Pflieger	B6
81	System reliability accounting for corrosion-induced degradation over time	2 - Regeneration, rehabilitation and adaptation of existing structures	Simone Celati, Agnese Natali, Walter Salvatore, Sebastian	Simone Celati	C4
82	Specimen Design and Advanced Material Testing for 3D Printing Concretes	1 - Designing and building for net zero	Elisabeth Radl, Marc-Patrick Pflieger, Julian Karolyi, Markus	Marc-Patrick Pflieger	B1
84	Advanced steel solutions for a sustainable and economic bridge infrastructure	1 - Designing and building for net zero	Mike Tibolt, Wojciech Ochojski	Mike Tibolt	D9
85	Tests of stainless steel circular tubular stub columns with seawater sea-sand concrete infill	4 - Reducing waste - productivity, efficiency and resource economy	Yancheng Cai, Albert K.H. Kwan	Yancheng Cai	D6
86	As bridge engineers, are we designing efficient structures?	1 - Designing and building for net zero	Gareth Davies	Gareth Davies	B4
87	Optimising material use and pedestrian comfort in the design of a hybrid steel-FRP bridge	4 - Reducing waste - productivity, efficiency and resource economy	Rik van Schaik, Kees van IJselmuiden, Lieuwe Cornelissen	Rik van Schaik	A7
88	Enhancing Root-Deck Crack Detection in Orthotropic Steel Decks through Numerical Investigation of Eddy Current Techniques	2 - Regeneration, rehabilitation and adaptation of existing structures	Nitipong Praphaphankul, Ayako Akutsu, Eiichi Sasaki	Nitipong Praphaphankul	C5
90	Bristol Temple Meads Railway Station roof refurbishment project	2 - Regeneration, rehabilitation and adaptation of existing structures	Peter Chong, Stephen Wren, Gabor Galyasz, Duncan Woolf	Gabor Galyasz	C4
92	Flo:Re – A new floor system made of reused concrete and steel elements	4 - Reducing waste - productivity, efficiency and resource economy	Numa Bertola, Célia Kúpfer, Maléna Bastien Masse, Corenti	Numa Bertola	A8
96	Shifting the Density Discourse: the Future of Soft Density	1 - Designing and building for net zero	Audrey-Frédérique Lavoie, Kyriaki Galopoulou, Zehra Lara	Audrey-Frédérique Lavoie	B1
97	Numerical Study on Square Large Sectional Concrete-Filled Steel Tubular Column with Separating Cross Steel Plate under Lateral Force in Different Direction	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Wencong Li	Wencong Li	D3
99	ElevArch® Masonry arch bridge jacking technique to save historic structures	2 - Regeneration, rehabilitation and adaptation of existing structures	Kevin Bennett, Hamish Harvey	Kevin Bennett	B8
101	Creating an extra floor space to an iconic building in the centre of London	2 - Regeneration, rehabilitation and adaptation of existing structures	Marco Rubeo, Mike Mollentze, Dan Harkin	Marco Rubeo	C4
102	Towards Cyber-Secure and Hazard-Resilient Smart Civil Structures	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Miguel Cid Montoya, Carlos E. Rubio-Medrano, Ahsan Kare	Miguel Cid Montoya	D1
104	Experimental bending tests on filler beam section with SFRC	3 - Designing for longevity, resilience and extreme events	Riccardo Zanon, Markus Schäfer, Gonzalo Ruiz, Angel De la	Riccardo Zanon	C8

105	Neural Network Dynamic Metamodels for a Highly Detailed Cable-Stayed Bridge Finite Element Model	2 - Regeneration, rehabilitation and adaptation of existing structures	Koravith Tiprak, Kouichi Takeya, Eiichi Sasaki	Koravith Tiprak	B8
106	Weldability and post-welding fatigue strength of older railway bridges	2 - Regeneration, rehabilitation and adaptation of existing structures	Takahiro Hirano, Daisuke Uchida, Takanori Murakami, Masahito	Takahiro Hirano	B8
109	FLOW Bridge - A modular FRP footbridge designed through an innovative procurement process	4 - Reducing waste - productivity, efficiency and resource economy	Davide Meucci, Tom Osborne	Tom Osborne	D6
112	Experimental Study of Compressive Strength of CFRP Reinforced Steel Columns	2 - Regeneration, rehabilitation and adaptation of existing structures	Takeshi Miyashita, Yuya Hidekuma, Kazuo Ohgaki, Masafumi	Syunta Sakurai	B8
117	Climate Resilience of Long-Span Bridges through Early Stage Aerodynamic and Climate Consulting	3 - Designing for longevity, resilience and extreme events	David Hamlyn, Tung Nguyen	David Hamlyn	C9
119	Patch Plate Strengthening of Steel Box Member by Frictional High-Strength Bolts/Studs	2 - Regeneration, rehabilitation and adaptation of existing structures	Hina Ishiguro, Takashi Yamaguchi, Yuta Yamamoto, Keito S	Hina Ishiguro	C5
121	A new era of a more durable and reliable segmental post-tensioned construction	3 - Designing for longevity, resilience and extreme events	Emil Delpont, Nuno Geirinhas	Matthew Dronfield	C8
122	Bridge hangers as cruciform sections – Advantages and behaviour under wind loading	3 - Designing for longevity, resilience and extreme events	Miguel Candeias, Riccardo Zanon, Jacques Berthelémy	Miguel Candeias	C9
123	Low carbon concrete used in the Uithoornlijn	1 - Designing and building for net zero	Michaël Menting, Roy van de Bilt	Michaël Menting	B4
124	Environmentally conscious structural design and material selection of short-span bridges	4 - Reducing waste - productivity, efficiency and resource economy	Ákos Kóvári, Gábor Németh, Róbert Bartus	Ákos Kóvári	D9
125	Life-cycle analysis of the Colne Valley Viaduct being delivered by the Align JV as Part of HS2 Phase One in the UK	1 - Designing and building for net zero	Mathis Kominiarz, Zeina Al-Nabulsi	Zeina Al-Nabulsi	B3
126	The impact on structural embodied carbon of using loads obtained from wind tunnel testing vs code based loads	1 - Designing and building for net zero	Tung Nguyen, Fabio Faseli, Pietro Manica, John Kilpatrick	Tung Nguyen	D9
127	A Finnish Case Study of U-Trough Underpasses in high water table conditions for Gravity vs Anchored Structural System	3 - Designing for longevity, resilience and extreme events	Manish Mehta, Yatharth Mathur, Raul Vibo	Manish Mehta	D8
128	Effect of Initial Web Out-of-Flatness Imperfections on the Shear Strength of Low-Frequency Sinusoidal Plate Girders	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Parfait Masungi, Maria Garlock, Spencer Quiel	Parfait Masungi	D1
133	The use of modular construction and component-based design to minimise waste and maximise efficiencies	4 - Reducing waste - productivity, efficiency and resource economy	John Armitage, Philip Robinson, Musa Chungue	John Armitage	A8
134	Ethical challenges and greenwashing – challenges for structural engineers	6 - The essential value of competence, professionalism and ethics	John Armitage	John Armitage	B1
135	Nonlinear aerostatic stability of a curved 275-m span suspension footbridge between Spain and Portugal	3 - Designing for longevity, resilience and extreme events	Miguel Cid Montoya, Juan Quintela, Santiago Hernández, J	Miguel Cid Montoya	A2
136	Strategies for Saving the Existing Infrastructure in Germany	2 - Regeneration, rehabilitation and adaptation of existing structures	Ioannis Retzepis	Ioannis Retzepis	C6
137	From the Drone to the BIM-Model - A Method for Creating As-Is Models in Bridge Construction for the Use Case of Digital Bridge Inspection	2 - Regeneration, rehabilitation and adaptation of existing structures	Johannes Krasa, Sebastian Baumgartner, Markus Vill	Sebastian Baumgartner	C6
140	Damage characterisation using Sentinel-1 images: Case study of bridges in Ukraine	2 - Regeneration, rehabilitation and adaptation of existing structures	Nadiia Kopiika, Jelena Ninic, Stergios Mitoulis	Nadiia Kopiika	D2
141	Development of novel engineering solutions for incremental launching of bridges on low-friction materials: case studies of Nowra and Sydney Gateway bridges in Australia	4 - Reducing waste - productivity, efficiency and resource economy	Michal Ambor, Nikolaj Pedersen, Laura Farina, Mauro Sarto	Michal Ambor	D6
142	Properties of Cementitious Materials with Reclaimed Cement	4 - Reducing waste - productivity, efficiency and resource economy	Alyssa Sunga, Shahriar Abubakri, Gilson Lomboy, Islam Ma	Shahriar Abubakri	A3
143	Topology Optimization Based Additive Construction for Sustainability	1 - Designing and building for net zero	Islam Mantawy, Jenna Migliorino, Anthony Mackin, Aly Ahm	Jenna Migliorino	D4
144	Additively Constructed Seismically Protected System for Bridge Infrastructure	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Islam Mantawy, Anthony Mackin, Jenna Migliorino, Hamdy f	Anthony Mackin	D1
145	Additive Manufacturing Techniques for Repairable Braced Frames	3 - Designing for longevity, resilience and extreme events	Hamdy Farhoud, Islam Mantawy	Islam Mantawy	A5
146	Predicting Fractures in Reinforcing Steel Bars: A Low Cycle Fatigue CNN Approach	3 - Designing for longevity, resilience and extreme events	Islam Mantawy, Naga Ravuri	Islam Mantawy	A4
150	Shake Table Studies of Precast Bridge Columns with Lap Splice Connections by UHPC	3 - Designing for longevity, resilience and extreme events	Jianfeng Gao, Biao Ma, Jianzhong Li	Jianfeng Gao	D8
152	Super-Low-Carbon Footbridge Design	1 - Designing and building for net zero	Ben Curry, Ben Addy, Ezra Groskin, Callum Fleming	Ben Curry	B6
154	Ultimate Shear Strength of Welded Stainless and Carbon Steel Girders	3 - Designing for longevity, resilience and extreme events	Kentaro Kato, Takeshi Miyashita, Hironori Ishii, Yoichi Yuki,	Kentaro Kato	A4
156	Developing computational design techniques to meet the increasing demand for more complex and sustainable bridges in Southeast Asia.	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Mike Tapley	Mike Tapley	D1
158	A low carbon bridge over the River Thames, London, UK	1 - Designing and building for net zero	Davood Liaghat, Koon Lok (Stephen) Nip, Antigoni Chatzida	Antigoni Chatzidaki	B3
159	How to design a low carbon bridge?	1 - Designing and building for net zero	Tom Osborne, Enea Latxague, Davood Liaghat, Koon Lok (S	Tom Osborne	B3
160	M5 Exe and Exminster Viaducts - Strengthening and Safeguarding	2 - Regeneration, rehabilitation and adaptation of existing structures	Riccardo Strocchio, Akram Malik, Frederic Turlier, Mark May	Riccardo Strocchio	B9
161	Carbon emissions, net zero, lifespan and circularity interaction strategies	1 - Designing and building for net zero	David Collings	David Collings	B1
162	Time-dependent analysis of long-span prestressed concrete bridges considering nonlinear creep behavior	3 - Designing for longevity, resilience and extreme events	Shiyu Wu, Zhao Liu, Teng Tong	Shiyu Wu	A2
163	Soho Loop Cantilever Footbridge	4 - Reducing waste - productivity, efficiency and resource economy	Ed Dablin	Ed Dablin	A9
164	Overturning Prediction of Freestanding Cylindrical Structures Subjected to Pulse-like Ground Motions	3 - Designing for longevity, resilience and extreme events	Xun Zhou, Jianzhong Li	Xun Zhou	A6
165	Design of the Bataan-Cavite Interlink Bridge (BCIB) Project in The Philippines	3 - Designing for longevity, resilience and extreme events	Marwan Nader, James Duxbury	Marwan Nader	C9
169	Structural configuration of negative bending moment zone in continuous MVFT girder bridge	3 - Designing for longevity, resilience and extreme events	Zhihua Xiong, Zhenhua Pan, Kevin Wolters, Markus Feldma	Zhihua Xiong	C9
170	Fatigue life prediction of orthotropic steel decks based on Phase Field model	2 - Regeneration, rehabilitation and adaptation of existing structures	Xiong Zhihua, Xuyao Liu, Di Di, Nils Rittich, Markus Feldma	Xiong Zhihua	C2
172	Re-use of wind turbine steel towers for pedestrian bridges	4 - Reducing waste - productivity, efficiency and resource economy	Torben Forsberg, Nils Behrndt Ebbesen, Jesper Henriksen	Torben Forsberg	A9
183	Evaluation of Resilience in Displacement Restrain Brace with initial story stiffness and Buckling Restrained Brace	3 - Designing for longevity, resilience and extreme events	Akine Otani, Takeshi Asakawa, Haruki Yokoyama	Akine Otani	A6
185	Chain reaction failure analysis for tied arch bridges considering cable corrosion	3 - Designing for longevity, resilience and extreme events	Yukari Aoki, Mami Kimijima, Humihiko Gotou, Haruki Tsuno	Yukari Aoki	D8
192	Structural Assessment of the M6 Bromford Viaduct Against Ground Movements	2 - Regeneration, rehabilitation and adaptation of existing structures	Thomas Wood, Christos Mitsarakis, Stuart Moore	Christos Mitsarakis	C1
193	Data-driven corrosion risk assessment for structures using ISO 9223	3 - Designing for longevity, resilience and extreme events	Anders W. B. Skilbred, Bruna Frydman, Graham Gedge, Se	Anders W. B. Skilbred	A5
194	Renewing Short-Span Existing Bridge Decks with CFRP Tendons for Durability	2 - Regeneration, rehabilitation and adaptation of existing structures	Yuki Onishi, Kohei Yamaguchi	Yuki Onishi	C2
196	Preliminary tests for application of carbon nanotubes and bacillus sphericus bacteria in self-healing cement mortars.	3 - Designing for longevity, resilience and extreme events	Eryk Goldmann, Aleksandra Ziemińska-Buczyńska, Marcin	Eryk Goldmann	A5
198	Challenging prior decisions relating to existing bridges	2 - Regeneration, rehabilitation and adaptation of existing structures	Peter Campbell, John Collins, Joe Kelly	Peter Campbell	B9
200	Fast, interactive digital design tools to inform decision making in bridge design	1 - Designing and building for net zero	Helen Fairclough, Tom Pritchard, Matthew Gilbert, Ian Firth,	Helen Fairclough	D4
201	Experimental and numerical study on the seismic performance of irregularly concrete-filled steel tube column to steel beam joints with inner semi-diaphragm	3 - Designing for longevity, resilience and extreme events	Wang-Hui Liu, Yan-Lin Guo	Wang-Hui Liu	C8
202	Application of Carbon Fibre Reinforced Polymer Cable in Extradosed Bridge	1 - Designing and building for net zero	Li Dong, Peng Feng, Yu Wang	Li Dong	D4
203	Strengthening of the A52 Clifton Stage 2 bridge in Nottingham	2 - Regeneration, rehabilitation and adaptation of existing structures	Riccardo Strocchio, Akram Malik, Frederic Turlier, Malcolm D	Akram Malik	C6
204	Cody Dock Rolling Bridge: infrastructure and place	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Rob Nilsson, Tom Randall-Page, David Knight, Giulio Giann	David Knight	D3
207	Global Trends in Bridge Collapse Incidents in 2023: an Analysis of Regional Patterns and Causative Factors	3 - Designing for longevity, resilience and extreme events	Paul Mullins	Paul Mullins	A1
208	Variable stiffness and damping components for semi-active vibration control and inflatable rigidization	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Qinyu Wang, Gennaro Senatore, Kaspar Jansen, Arjan Hab	Qinyu Wang	D3
210	An Experimental Study of Self-anchored Combined CFRP Cables	3 - Designing for longevity, resilience and extreme events	Guozhen Ding, Chao Wu, Peng Feng	Guozhen Ding	C8
214	Sustainable salvation of deficient RC bridges by means of the UHPFRC Technology	2 - Regeneration, rehabilitation and adaptation of existing structures	Eugen Brühwiler	Eugen Brühwiler	B9
217	Evaluation on a load-carrying capacity of the stiffened plates subjected to biaxial forces considering the local buckling of the longitudinal ribs	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Kousuke Yasuda, Takashi Yamaguchi, Seiji Osakabe	Kousuke Yasuda	D2
218	Load Transfer Mechanism of Single-sided frictional joints with high strength countersunk head bolts	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Misato Konishi, Takashi Yamaguchi, Gen Hayashi, Masayos	Misato Konishi	D2
219	Suitability of EN 1317 crash test parameters for determining accidental loads on bridges	3 - Designing for longevity, resilience and extreme events	Vazul Boros	Vazul Boros	C8
222	Assessment strength and stiffness properties of wood in existing structures	2 - Regeneration, rehabilitation and adaptation of existing structures	Lilita Ozola, Martins Petersons	Martins Petersons	C4

223	Methodology of a predictive tool for corrosion prediction and risk-based maintenance in reinforced concrete structures.	3 - Designing for longevity, resilience and extreme events	Paulo Claude, Frédéric Duprat, Thomas De Larrard, Patrick	Paulo Claude	A5
224	Experimental study on the bond-slip relationship between concrete and deformed rebar embedded in grouted corrugated duct	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Xu Wang, Zhao Liu, Jiacheng Zheng	Zhao Liu	D5
226	Design and construction of the flyover in the intermodal ferry terminal in Świnoujście	4 - Reducing waste - productivity, efficiency and resource economy	Dawid Wisniewski, Patryk Stempin, Michal Majka	Dawid Wisniewski	A9
227	Heating and Thermal Conductivity Effect Inside High Damping Rubber Bearing at Low Temperature	3 - Designing for longevity, resilience and extreme events	Jie Shen, Akira Igarashi, Ji Dang, Yuki Hamada, Takehiko H	Jie Shen	A6
229	Sustainability as a key design factor from the structure conception stage	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Ignacio Javier Navarro Martínez, Jose Maria Lorenzo Romé	Jose Maria Lorenzo Romero	D5
233	Nonlinear analysis of flat slab-column connections with openings close to the column reinforced with UHPFRC under punching shear stress	4 - Reducing waste - productivity, efficiency and resource economy	Igor Gonçalves, Orlando Almeida, Leandro Trautwein, Rafael	Igor Gonçalves	A8
235	Inspection and complete rehabilitation of the Langebro Bridge in Copenhagen with focus on sustainable solutions	2 - Regeneration, rehabilitation and adaptation of existing structures	Ulrik Sloth Andersen, Mette Kristensen, Rasmus Johan Fin	Ulrik Sloth Andersen	C2
236	Design and Construction of an Arch Bridge over Railway Line no. 132 in Poland using BIM Tools	3 - Designing for longevity, resilience and extreme events	Michal Majka, Patryk Stempin, Dawid Wisniewski	Dawid Wisniewski	A2
237	Structural assessment of corbels and half-joints in existing bridges	2 - Regeneration, rehabilitation and adaptation of existing structures	Rob Vergoossen, Evert van Vugt, Martijn de Boer	Rob Vergoossen	D2
239	The client's point of view on the realisation of a geopolymer concrete bridge with recycled concrete aggregates	1 - Designing and building for net zero	Kees Blom, William Schutte, Albert Allaart, Joep van Leeuw	William Schutte	D4
242	Extended linear finite element calculation of a 70-years old prestressed concrete viaduct	2 - Regeneration, rehabilitation and adaptation of existing structures	Rene Veerman, Coen van der Vliet, Baptiste Korff	Rene Veerman	B9
243	Effects of material properties on slipping behavior in high-strength bolted frictional GFRP joints	3 - Designing for longevity, resilience and extreme events	Toshie Habukawa, Gen Hayashi, Masaki Sekimoto, Takashi	Toshie Habukawa	D8
246	Sensitivity Analysis and Optimization of Coupling Trusses under Wind Stiffness Constraints for Multi-Petal Supertall Buildings	4 - Reducing waste - productivity, efficiency and resource economy	Yuzhou Hou, Xin Zhao, Yutong Xu, Kun Ding, Bingjie Du, Yi	Yuzhou Hou	A7
247	Probabilistic modelling of building stock properties for urban mining	4 - Reducing waste - productivity, efficiency and resource economy	Lombe Mutale, Ramon Hingorani, Nils Dittrich, Jochen Köhler	Lombe Mutale	D9
248	Vibration design and dynamic testing for long cantilever composite floors equipped with vibration rods in office tower	3 - Designing for longevity, resilience and extreme events	Yutong Xu, Yang Wang, Xin Zhao, Jun Chen, Yi Huang, Jian	Xin Zhao	A6
249	Optimization Process of Railway Segmental Bridges Constructed by Balanced Cantilever Method	4 - Reducing waste - productivity, efficiency and resource economy	Jindrich Potucek, Vojtech Kolinsky	Jindrich Potucek	A9
250	Sensitivity analysis of controlling indices and structural optimization for reinforced concrete shearwall residential towers	4 - Reducing waste - productivity, efficiency and resource economy	Sheng Yang, Jianan Chen, Xin Zhao, Yuzhou Hou	Yuzhou Hou	A8
251	Deep reinforcement learning algorithm based optimization method for the multiple storey braced steel frame structure under global stiffness constraints	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Ming Chen, Xin Zhao, Bingjie Du	Bingjie Du	D5
254	Selection and Design of Integrated Coating Systems for Structural Components of All Steel Residential Towers	3 - Designing for longevity, resilience and extreme events	Shuang Wu, Xin Zhao, Yuzhou Hou, Fang Xu, Yi Huang	Shuang Wu	A5
255	Smart Structures: Design of Whitegates to Athlone Castle Pedestrian, Cycle Bridge	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Pankaj Das, Mark Kilcullen, Matthew Ryan, Rachel Harney	Pankaj Das	D3
256	Experimental study and finite element analysis on seismic behavior of flat vertical-diaphragm stiffened concrete-filled SHS column joints	5 - Smart Structures - designing responsive, adaptive & progressive solutions	Jianan Chen, Danlin Feng, Wei Wang, Xin Zhao, Yang Wang	Xin Zhao	D5
257	Pile type selection and design of permanent-temporary synthesis structures for underground urban complexes in soft soil foundation site	1 - Designing and building for net zero	Jianlan Chen, Ming Chen, Xin Zhao, Fang Xu, Yuzhou Hou, S	Shuang Wu	D4
258	Sensitivity Analysis and Optimization of Coupling Trusses under Earthquake Stiffness Constraints for Multi-Core Supertall Buildings	4 - Reducing waste - productivity, efficiency and resource economy	Dinan Shao, Yutong Xu, Yuzhou Hou, Xin Zhao, Zhongjun Y	Xin Zhao	A8
261	Analysis and design of steel structures equipped with pressure-adjustment fluid viscous dampers for wind-and-seismic double-excitation vibration mitigation	4 - Reducing waste - productivity, efficiency and resource economy	Chornay Morn, Xin Zhao, Bingjie Du, Wang Gang	Bingjie Du	D6
262	Lateral stiffness design and optimization for over-track residential towers in metro depots	4 - Reducing waste - productivity, efficiency and resource economy	Fang Xu, Yuzhou Hou, Xin Zhao, Shuang Wu	Shuang Wu	A3
263	Selection and design of wind and earthquake double-excitation vibration mitigation system using fluid viscous dampers for steel residential towers	4 - Reducing waste - productivity, efficiency and resource economy	Bingjie Du, Xin Zhao, Chornay Morn, Yang Wang, Yi Huang	Bingjie Du	A7
265	A broadened approach to the environmental assessment in bridge design	1 - Designing and building for net zero	Vazul Boros, Michael Aleksa, Paul Rosenkranz, Sonia Zajac	Vazul Boros	B4
266	Microcracks assessment during unloading for structural elements reuse	2 - Regeneration, rehabilitation and adaptation of existing structures	Sushree Sunayana, Lisbeth M. Ottosen	Sissel Albrecht Kahr	D2
268	Fatigue Design of Van Brieneoord Bridge Deck	3 - Designing for longevity, resilience and extreme events	Rupert Gibson, Daan Tjepkema, David Gratton, Frank van D	Rupert Gibson	A2
269	Masonry arch bridges in the 21st century	3 - Designing for longevity, resilience and extreme events	Matthew Gilbert, Colin Smith, Serena Amodio	Matthew Gilbert	A1
271	Electric Curing of Conductive Concrete for Cold Weather	3 - Designing for longevity, resilience and extreme events	Alyssa Sunga, Shahriar Abubakri, Gilson Lomboy, Islam Ma	Shahriar Abubakri	A5
273	Strengthening of a Curved and Skew Supported Prestressed Hollow Box Girder	2 - Regeneration, rehabilitation and adaptation of existing structures	Maria Kierzek, Vasco Amaral, Kristian Schellenberg	Maria Kierzek	C2
274	Ship impact loads on construction pits of bridges	3 - Designing for longevity, resilience and extreme events	Claus Kunz	Claus Kunz	C9
276	Shear reinforcement of Steel I-beams using CFRP composites	2 - Regeneration, rehabilitation and adaptation of existing structures	Sean Zahra, Jeanette M Muñoz Abela	Sean Zahra	C4
279	Rehabilitation of the Outeiro Bridge with emergency strengthening of the superstructure damaged by barges impact	2 - Regeneration, rehabilitation and adaptation of existing structures	Pedro Almeida, Leila Pamplona, Adler Silveira, Evely Silva	Pedro Almeida	C1
280	Sustainability and Beauty in Bridge Design	1 - Designing and building for net zero	Hector Beade-Pereda	Hector Beade-Pereda	B6
283	Seismic Evaluation and Rehabilitation of Steel Structures in the United States	2 - Regeneration, rehabilitation and adaptation of existing structures	Roberto Leon, Jay Harris, Conrad Paulson	Roberto Leon	C4
288	Thame Valley Viaduct: carbon efficient DfMA viaduct for HS2	1 - Designing and building for net zero	Fernando Madrazo-Aguirre	Fernando Madrazo-Aguirre	B3
292	Streamlining a Transitional Shelter Design: A DFMA-Driven Approach for Efficient Design and Assembly	3 - Designing for longevity, resilience and extreme events	Cheryl Lyne Roxas, John Paul de Pedro, Rhem Leoric Dela	Cheryl Lyne Roxas	A4
294	Construction and Testing of a CFRP-prestressed Railway Bridge Prototype	3 - Designing for longevity, resilience and extreme events	Andreas Näsborn, Karel Thoma, Walter Kaufmann	Andreas Näsborn	A1
300	The Transpennine Route Upgrade & Project West 3	1 - Designing and building for net zero	Graham Thomas	Graham Thomas	B2
301	The Legacy of the Past: Geotechnical challenges from coal mining impacting major rail infrastructure.	1 - Designing and building for net zero	Paul McEwen, Sue Thomson and Richard Deakin	Paul McEwen	B2
302	Transpennine Route Upgrade - Huddersfield Viaduct	1 - Designing and building for net zero	Sonam Norbu, Aiken Harrap, Will Spencer	Aiken Harrap	B2
303	Baker Viaduct: On Track to Better - The Design of a New Railway Viaduct for the 21st Century	1 - Designing and building for net zero	Chris Jackson, Francisco Rodriguez Salas	Chris Jackson	B2
304	Adaptive pathways for critical infrastructure resilience	3 - Designing for longevity, resilience and extreme events	Nisrine Makhoul, Dimitra V. Achilopoulou, Rolands Kroman	Nisrine Makhoul	A2
305	Interdisciplinary data collection for empirical community-level recovery modelling	3 - Designing for longevity, resilience and extreme events	Blythe Johnston, Lisa Wang, John W. van de Lindt, Shane	Blythe Johnston	D8