



ICEFORUM2023

International Forum on Infrastructure and Civil Engineering

February 06-08, 2023 | Porto, Portugal

Holiday Inn Porto Hotel - Gaia, Porto, Portugal

iceforum2023@continuumforums.com
<https://www.continuumforums.com/2023/iceforum>

Day-1, February 06, 2023
Holiday Inn Porto Hotel - Gaia, Porto, Portugal

Main Hall

08:00 - 09:15

Registrations

Plenary Talk

09:15 - 09:55

Title: Sustainability and Civil Engineers: Which Training and Competencies are Useful?

Alfredo Soeiro, University of Porto, Portugal

Keynote Talks

09:55 - 10:25

Title: A Comprehensive Overview of Sustainability Road Evaluation: A Bibliometric Analysis and Literature Review

Montserrat Zamorano, University of Granada, Spain

10:25 - 10:55

Title: Photogrammetric Evaluation of Glulam Timber Shear Modulus Using Torsion Test Method and Dual Stereo Vision System

Ahmed Mohamed, Edinburgh Napier University, United Kingdom

10:55 - 11:25

Torsional–Flexural Resonance of Simply Supported Bridges Subjected to High Speed Trains

Jong-Dar YAU, Tamkang University, Taiwan

11:25 - 11:40

Coffee Break

Invited Talks

11:40 - 12:05

Title: Green Infrastructures for Circular Cities

Cristina Calheiros, CIIMAR- Interdisciplinary Centre of Marine and Environmental Research, Portugal

12:05 - 12:30

Title: Structural Health Monitoring And Numerical Modelling Of Heritage Structures

Maria Girardi, National Research Council of Italy, Italy

12:30 - 12:55

Title: Artificial Intelligence-Based Visual Inspection System for Structural Health Monitoring of Monuments

Mayank Mishra, University of Minho, Portugal

12:55 - 13:05

Group photo

13:05 - 13:50

Lunch Break

Special Session Talks

13:50 - 14:15

Opening Invited Talk: European Framework for Sustainable Buildings

Jose Fina Lindblom, European Commission, Belgium

14:15 - 14:40

Title: Evaluating the Environmental Performance of Sustainable Road Pavements

Alessandra Bonoli, Beatrice De Pascale - University of Bologna, Italy

14:40 - 15:05

Title: Screen Waste from Municipal Waste Water as Porous Agent in Ceramic Materials

Maria Martin Morales, University of Granada, Spain

15:05 - 15:30

Title: Use of Technological Nutrients from Olive Stone for Oncorporation in Mortars

Maria Jose Martinez-Echevarria Romero, Universidad de Granada, Spain

15:30 - 15:55	Title: Full-Scale Application of Pavement Concrete Made with Mixed Recycled Aggregates and Biomass Bottom ash, Replacing Aggregates and Cement
	Francisco Agrela, University of Cordoba, Spain
15:55 - 16:10	Coffee Break
16:10 - 16:35	Title: Recycled Aggregates to Improve Self-Cementation Capacity for Use in Roads. A Life Cycle Assessment
	Monica Lopez Alonso, University of Granada, Spain
16:35 - 17:00	Title: Innovative Concrete for a Sustainable Approach in the Building Sector
	Maria Chiara Bignozzi, University of Bologna, Italy
17:00 - 17:25	Title: Life Cycle Analysis of Aggregate Production Incorporating the Recycled Plastic Fraction from Electrical and Electronic Equipments
	Melina G Gomez, Becaria Doctoral INFAP - CONICET (Argentina)
17:25 - 17:45	Networking-Discussions
Closing the conference for Day 1	

Day -2, February 07, 2023	
Holiday Inn Porto Hotel - Gaia, Porto, Portugal	
Main Hall	
Plenary Talk	
09:00 - 09:40	Climatic Variability and Teleconnectivity of Midlatitude Precipitation Patterns over the Contiguous United States Associated with ENSO Extreme Events Using Harmonic and AI Cluster Analyses
	Jai Hong Lee, South Carolina State University, USA
Keynote Talks	
09:40 - 10:10	Title: International Forum on Infrastructure and Civil Engineering
	Christian Malaga Chuquitaype, Imperial College London, London
10:10 - 10:40	Title: Sustainability in Highway Engineering: Education, Professional Development, and Pavement Design, Construction and Maintenance
	Amer Ali, London South Bank University, London
10:40 - 11:00	Coffee Break
Keynote Talks	
11:00 - 11:30	Title: Computer Vision Based Techniques for Vibration Based Structural Health Monitoring
	Jun Li, Curtin University, Australia
11:30 - 12:00	Title: Development of Novel Metaconcrete to Resist Impulsive Loads
	Wensu Chen, Curtin University, Australia

Invited Talks	
12:00 - 12:25	Title: Experimental Triaxial Test for the Asphalt Concrete Modified using Hydrated Lime for Mineral Additive
	Azedin Al Ashaibi, University of Salford, UK
12:25 - 12:50	Title: Diagnostics and Explanation of the Current Status of the 40 year Railway Viaduct
	Jakub Zembrzuski, Gdansk University of Technology, Poland
12:50 - 13:45	Lunch Break
Special Session- 02 Talks : Transportation Session	
13:45 - 14:10	Session Opening Talk: Towards More Effective Measures to Promote Walking and Cycling
	Amer Ali, London South Bank University, London
14:10 - 14:35	Title: Restoration of Historic Buildings in the Mediterranean Cities using Pixel Matching Technique – Case Study of Sidon
	Fouad Ghoussayni, London South Bank University, London
14:35 - 15:00	Title: Critical Investigation into the Effects of Varied Traffic Demands and Geometric Design on the Performance of Major ring Roundabouts
	Zhor Radjef, London South Bank University, London
15:00 - 15:25	Title: Investigation into Effective Measures to Improve Cyclists' Safety at Complex Road Networks and Junctions
	Jahanara Akhter, London South Bank University, London
15:25 - 15:50	Title: Sustainability and Metaverse Altering New Eco Designs from the Virtual to Real World
	Bochra Houssam Eldine, Extend Architects, Bierut, Lebanon
15:50 - 16:15	Title: Investigation into the Effects of Rising Temperature and Traffic Loading on the Behavior of Rigid Pavements
	Imad Dagher, City of Westminster College, London
16:15 -16:30	Coffee Break
Plenary Talk	
16:30 - 17:10	Title: International Forum on Infrastructure and Civil Engineering
	Newman Winifred Elyse, Clemson University, USA
17:10 - 17:30	Networking-Discussions
Closing the conference for Day 2	
Delegates	
Prof. Henry M Koffman, University of Southern California, USA	
Prof. Alireza Dolatshahi-Pirouz, Technical University of Denmark, Denmark	

Day -2, February 07, 2023, Porto, Portugal

Virtual Presentations

Beijing Time Zone (GMT+8)

Plenary Talks

10:00 - 10:40	Title: Implementation of Cement with Low CO2 Emissions – Recent Developments Jannie van Deventer, CEO of Zeobond Pty Ltd, Australia
10:40 - 11:20	Title: International Forum on Infrastructure and Civil Engineering Young Jin Cha, University of Manitoba, Canada
11:20 - 12:00	Title: Seismic Metamaterials with Low Frequency Wide Bandgaps Using Steel Barriers C W Lim, City University of Hong Kong, Hong Kong
12:00 - 12:40	Title: International Forum on Infrastructure and Civil Engineering Brian Uy, University of Sydney, Australia

Keynote Talks

12:40 - 13:10	Title: The Hyperloop Transport System: Challenges and Future Directions Khaled Shaaban, Utah Valley University, USA
13:10 - 13:40	Title: International Forum on Infrastructure and Civil Engineering Jiangpeng Shu, Zhejiang University, China
13:40 - 14:10	Title: DEM Modeling of Cemented Sands with Irregular Particle Shapes Jianfeng Wang, City University of Hong Kong, Hong Kong

Invited Talks

14:10 - 14:35	Title: International Forum on Infrastructure and Civil Engineering Gang Zhang, Chang'an University, China
14:35 - 15:00	Title: Development of Innovative Sensors for Infrastructure Monitoring Chengyu Hong, Shenzhen University, China
15:00 - 15:25	Title: Experimental Research on Transverse Compressive Mechanical Properties of CFRP Tendon-Wedge Assembly Lichen Wang, Tianjin University, China
15:25 - 15:50	Title: Novel FRP-UHPC Hybrid Reinforcing Bars Jun Jie Zeng, Guangdong University of Technology, China
15:50 - 16:15	Title: Seismic Resilience Upgrade of Corroded Bridge Columns Zhongkui CAI, Nanjing Tech University, China
16:15 - 16:40	Title: Crack Detection in a Beam using Curvatures and Digital Image Measurements Ravi Nigam, IIT Dhanbad, India

Closing the Conference for Day 2

Day -3, February 08, 2023, Porto, Portugal	
Virtual Presentations	
Beijing Time Zone (GMT+8)	
Plenary Talks	
10:00 - 10:40	Title: International Forum on Infrastructure and Civil Engineering Kunigal N Shivakumar, North Carolina A&T State University, USA
10:40 - 11:20	Title: Advances in Recycling Concrete Vivian W Y Tam, Western Sydney University, Australia
11:20 - 12:00	Title: Recent Research Progress on FRP/Fiber Textile-Reinforced UHPC Composites Yan Zhuge, University of South Australia, Australia
12:00 - 12:40	Title: Novel Numerical Methods for Fractional Dynamical Systems and Applications Fawang Liu, Queensland University of Technology, Australia
12:40 - 13:20	Title: International Forum on Infrastructure and Civil Engineering Bishwajit Bhattacharjee, IIT Delhi, India
Invited Talks	
13:20 - 13:45	Title: Limestone Calcined Clay Cement Concrete: Material Development, Physical Properties, Structural Implementation and Durability Biao HU, Shenzhen University, China
13:45 - 14:10	Title: Recent Advances in Computer Vision-Based Structural Health Diagnosis Yang Xu, Harbin Institute of Technology, China
14:10 - 14:35	Title: Recent Progress in Sequential Sparse Bayesian Learning and Applications to Tructural Health Monitoring Yong Huang, Harbin Institute of Technology, China
14:35 - 15:00	Title: International Forum on Infrastructure and Civil Engineering Zhang Jingxiao, Chang'an University, China
15:00 - 15:25	Title: Probabilistic Seismic Demand Models and Fragility Estimates for High-Rise Buildings Xiao Wei Zheng, China University of Mining and Technology, China
Closing the Conference for Day 3	
End of the Conference	

Next Event Details:

International Forum on Infrastructure and Civil Engineering
APRIL 08-10, 2024 | MUNICH, GERMANY

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