

Session No.	Session Title	Best Presentation Awardee	Paper Title	Ref. ID
I-1	Infrastructure Management and Monitoring	• Mohammad Shamim Miah • Werner Lienhart	STRUCTURAL DAMAGE DETECTION USING CONTINUOUS WAVELET TRANSFORM AND SHORT-TIME FOURIER TRANSFORM FOR STRUCTURAL HEALTH MONITORING	STR-48
I-2	Prefabricated and Modular Construction	• Tan Teng Hooi • Maey Leow Geok Mui • Wong Seng • Heng Kim Huat	USE OF CONCRETE PREFABRICATED PREFINISHED VOLUMETRIC CONSTRUCTION FOR A 63-STORY RESIDENTIAL TOWER	CON-07
I-3	Building Envelope, Thermal Comfort and Indoor Environmental Quality	• Md Kamrul Hassan • Md Rayhan Hasnat • Swapan Saha	INTUMESCENT-ENHANCED PLASTERBOARD: A PATHWAY TO IMPROVED THERMAL INSULATION AND FIRE RESISTANCE	STR-21
I-4	Built Heritage, Adaptive Reuse and Residential Built Environment	• Keimi Harada • Taku Ueno • Sotaro Yoshikawa	CASE STUDY ON UTILIZING DIGITAL TECHNOLOGY FOR THE PRESERVATION OF HISTORIC WOODEN STRUCTURES	AAE-09
II-1	Emerging Digital Technologies and Construction Site Automation	• Alessandro Carbonari • Alessandra Corneli • Tommaso Pieroni • Berardo Naticchia	EXTENDING AI AGENTS WITH SPATIAL REASONING CAPABILITIES FOR SAFETY MANAGEMENT OF CONSTRUCTION SITES	CSA-04
II-2	Advances in Bridge and Structural Engineering	• Peter Grubits • Maurizio Morgese • Majid Movahedi Rad • Ali Maher	FATIGUE ASSESSMENT OF STEEL-CONCRETE COMPOSITE BRIDGES USING NONLINEAR FINITE ELEMENT ANALYSIS AND NEURAL NETWORK	STR-18
II-3	Sustainable and Advanced Cementitious Materials	• Ziaurahman Ali • Saheed Kolawole Adekunle • Rida Alwi Assaggaf	ENHANCING CO2 SEQUESTRATION AND STRENGTH OF CEMENT WASTE-DERIVED PORTLANDITE MORTARS THROUGH MOISTURE CONTROL	CTE-26
II-4	Digitalization and Data Interoperability in Construction	• Luisa Braun • Peter Boettcher • Frank Scholzen	DIGITAL TWIN COLLABORATION: AN INTEROPERABLE DATA TRANSFORMATION PROCESS FOR THE BUILDING AND AUTOMOTIVE INDUSTRIES	AAE-04
III-1	Sustainability, Life Cycle Assessment and Environmental Certification	• Shaik Inayath Basha • Karman Manickavasakam • Mazen Anwar Abdullah • Abbas Saeed Hakeem • Mohammed A. Alosta • Mohammed Abdul Aziz	BITUMEN-DERIVED CARBON COATED SAND FOR ENHANCED THERMAL CONDUCTIVITY	SUS-21
III-2	Composite Elements and FRP Strengthening	• Constanze Reuter • Klaus Holschemacher	INFLUENCE OF CURVATURE ON TENSILE BEHAVIOR OF PBO-REINFORCED CONCRETE	CTE-14
III-3	Infrastructure Risk Management and Disaster Resilience	• Flavia-Ioana Patrascu • Syed Mostofa Asif • Heloyse Leonard-Saillant	DISASTER IMPACTS ON URBAN SEWERAGE SYSTEMS: EVIDENCE FROM MUNICIPAL 311 SERVICE REQUESTS IN LOUISIANA, USA	RAD-11
III-4	Computational Methods and Structural Optimization	• Vahid Shafae • Majid Movahedi Rad	TNN-BASED INVERSE CALIBRATION OF DEM PARAMETERS FOR COLORED SELF-COMPACTING CONCRETE	STR-19
IV-1	Artificial Intelligence for Cost and Schedule Forecasting	• Marta Mierzejek	CAUSES OF PROJECT DELAYS AND COST OVERRUNS IN INFRASTRUCTURE PROJECTS	CPM-03
IV-2	Low-Carbon Cements and Alternative Binders	• Jeung-Hwan Doh • Tianyu Sun • Dominic E.L. Ong • Sam Fragomeni • Zhongyuan Ren	COMPARATIVE STUDY ON THE MECHANICAL PROPERTIES AND CARBONATION RESISTANCE OF RM-GGBFS-BASED AAM AND CEMENT SYSTEMS	CTE-13
IV-3	Planning, Decision-Making and Digital Asset Management in the Built Environment	• Amarjit Singh • Sankalp Rampuriya	REASSESSING TIME ZONES: SOLAR DEVIATION, TEMPORAL EQUITY, AND FEASIBILITY	PND-02
IV-4	Environmental Engineering, Water Resources and Urban Decarbonization	• Andrea Giuseppe di Stefano • Davide Galbiati • Davide Puricelli • Mattia Bosio • Mattia Federico Leone • Matteo Ruta • Gabriele Masera	AI-DRIVEN FRAMEWORK FOR ZERO-EMISSION NEIGHBORHOODS: MACHINE LEARNING APPLICATIONS IN EARLY-STAGE URBAN ENERGY PLANNING	AAE-07
V-1	Construction Site Safety and Worker Health	• Ahmed Jalil Al-Bayati • Vigneshkumar Chellappa	INTEGRATING DESIGN FOR SAFETY (DFS) INTO CIVIL ENGINEERING EDUCATION	EPE-13
V-2	Contracts, Procurement and Dispute Resolution	• Rita Elias Awwad • Jana Elias Rima • Sarah Nour Elias Roukos	AN AGENT-BASED FRAMEWORK OF THE CONTRACTOR SELECTION PROCESS USING MULTI-CRITERIA DECISION MAKING APPROACH	PRO-01
V-3	Seismic Assessment and Retrofitting of Existing Structures	• Santiago Londono • Jamil Munir Farah Michail • Uwais Safdar Ulde • Agathoklis Giaralis • Marco Domaneschi	THE HARVEST AND PROTECT PARADIGM: A BRIEF STATE-OF-THE-ART REVIEW OF MAIN DUAL-FUNCTIONAL HIGH-RISE BUILDING SYSTEMS	STR-37