Fib symposium 2025 - Posters

Application of Digital Twins and IoT for investigating damage caused to buildings under dynamic influences, Kaliukh Iurii, Slyusarenko Yuriy, Marienkov Mykola, Siedin Volodymyr, Tytarenko Volodymir, Kovba Vladyslav, Kosheleva Nina, Kurash Sergii, Yakovenko Ihor, Usenko Mykola, Zhemelinsky Ilya, Vasyl Kliuiev, Berchun Yaroslav

Climate change induced carbonation and corrosion of EU building stock: recent findings, Dimova Silvia, Polo Lopez Cristina Silvia, Sousa Maria Luisa, Rianna Guido, Bastidas-Arteaga Emilio, Nogal Maria, Gervasio Helena, Martorana Emilio, Reder Alfredo, Athanasopoulou Adamantia

Concrete-reinforcement bond tests in high-performance self-consolidating concrete, *Dyba Marcin* Estimation of Lateral Displacement Induced by High-Rise Building Horizontal Loads Using Timoshenko Beam Theory, *Alnaser Ahmad, Issa Mohamad*

Evaluation of The Corrosion on Capacity of Prestressed Concrete Girder, *Nossoni Goli, Maharjan Saroj*

Investigation of Mechanical Properties of Ceramic Waste Powder Based Low Molarity Geopolymer Composites, Aslı Polat, Yunus Emre Avşar, Mücteba Uysal

Mechanical and durability properties of functionally graded crumb rubber concrete, *Mohammed A. Mujalli, Samir Dirar, Marios Theofanous, Abdeliazim Mustafa Mohamed*

Mechanical Performance of Sustainable Concrete with Recycled PET and Tire Rubber, Valeria Franco-Quiñonez, Natividad García-Troncoso, David Valverde-Burneo, Ignacio Segura

Monitoring drying in cement paste and concrete: Application of a novel ultrasound based method, *Eva Jägle, Jithender J. Timothy, Christoph Gehlen*

Numerical simulation of stud pullout in concrete using a regularized damage model, Matthieu Le Noir de Carlan, Ludovic Jason, Luc Davenne

Optimising robotic production of interlocking dry joints for the connection of reused concrete members, *Ben Stöhr, Marius Hägle, Alexander Stark*

Review of testing, assessment, and design methods on post-installed bonded fasteners into masonry under seismic action, *Doruk Gurkut, Giovanni Muciaccia*

Software-Based Optimization of Reinforced Concrete Floor Structures Using Environmentally Friendly Materials, Anna Horáková, Iva Broukalová, Alena Kohoutkova

The metro station modification into a multi-storey shopping center using Digital Twins and Internet of Things, Volodymyr Tytarenko, Iurii Kaliukh

Trials on fibre reinforced concrete for hydraulic structures, *Nicolas Bagneux, Marie Allain, Germain AURAY, Domitile Sébastien, Bastien Dupuis, Papazian Mickael, Sauvaget Cyrille*

An experimental demonstration of the effect of cement reduction measures on the consistency of concrete, Baral Sushmita, Alexander Vetnes, Ingrid Lande, Dmitry Vysochinskiy