



# Third International Conference on Construction Materials and Structures on Synergy of Materials and Structures

All poster presenters are requested to be ready with their posters by 9:00 AM

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Day 3, 5th July 2025

| Sl. No. | Poster timing                                                    | Abstract ID | Poster Title                                                                                                                                   |
|---------|------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Poster Mounting Time<br>08:30 Evaluation Time<br>14: 30 - 17: 30 | 0291        | Integrating Construction and Demolition Waste in Concrete: A Pathway to Sustainable Design                                                     |
| 2       |                                                                  | 0547        | Effect of Fire on the Properties of Different Concrete at Elevated Temperatures                                                                |
| 3       |                                                                  | 1849        | Hybrid Nanomaterials as repair mortar: A multifunctional Approach                                                                              |
| 4       |                                                                  | 2386        | Statistical analysis using artificial neural networks and regression analysis of UHFRc at high temperature                                     |
| 5       |                                                                  | 2846        | A review on performance of post-installed mechanical anchors in cracked concrete                                                               |
| 6       |                                                                  | 0840        | Effect of vermiculite on strength and thermal insulation properties of clay bricks                                                             |
| 7       |                                                                  | 3567        | Prediction of Strength of High Performance Concrete Using Machine Learning                                                                     |
| 8       |                                                                  | 3646        | Study on Collapse Fragility of RC Buildings Damaged by Türkiye-Syria Multiple Earthquakes                                                      |
| 9       |                                                                  | 3666        | Unveiling the causes of structural failure: a case study of the g+1 building at haik secondary school, Ethiopia                                |
| 10      |                                                                  | 3831        | Effect of Plastic Waste on Concrete: A comprehensive Review                                                                                    |
| 11      |                                                                  | 4218        | Compressive Strength of Concrete Mix using Machine Learning Technique                                                                          |
| 12      |                                                                  | 4355        | A Comprehensive Review on Structural Health Monitoring (SHM): Bridges in Indian Scenario                                                       |
| 13      |                                                                  | 4463        | Streamlined Construction Waste Detection and Segmentation for Waste sorting & Volume estimation with Advanced Deep Learning Techniques         |
| 14      |                                                                  | 4770        | Integrated Monitoring and Remediation of Rising Damp in Historic and Modern Masonry Structures : A Multi-Modal Diagnostic Approach             |
| 15      |                                                                  | 5149        | Modelling of Concrete Compressive Strength with Support Vector Machine                                                                         |
| 16      |                                                                  | 5353        | Automated Detection of Concrete Cracks Using Vision-Language Models with Text Prompts                                                          |
| 17      |                                                                  | 5896        | Effect Of Fineness Modulus On Properties Of Mortar With P-Sand                                                                                 |
| 18      |                                                                  | 6125        | A Scientometric Analysis on Performance of Glass Fiber Reinforced Polymer (GFRP) Concrete Beams in Flexure-An Analytical Study                 |
| 19      |                                                                  | 6147        | A Study on the Corrosion Resistance of Steel Rebars Coated with ZnO-PVDF-Epoxy Hybrid Coating in Mortar under Alkaline Environments            |
| 20      |                                                                  | 6164        | Impact of Waste Vehicle Tyre Fibers on the Strength and Durability of Porous Paver Blocks                                                      |
| 21      |                                                                  | 6182        | Application of biocementation to enhance performance of fly Ash bricks                                                                         |
| 22      |                                                                  | 6283        | Review on 3D Concrete Printing Technology: Sugarcane bagasse ash as Supplementary cementitious material, Mechanical Properties and Durability. |
| 23      |                                                                  | 6635        | A Systematic Review of Machine Learning Algorithms to Evaluate the Compressive Strength of Concrete                                            |
| 24      |                                                                  | 7042        | A comparative study on performance of high rise frame -tube structure and tube-in-tube structure subjected to lateral loading using ETABS.     |
| 25      |                                                                  | 7080        | Prediction of Compressive Strength of Concrete using Machine Learning Techniques                                                               |
| 26      |                                                                  | 7215        | Crack Detection in RC Structures Using Machine Learning Techniques                                                                             |
| 27      |                                                                  | 8021        | Empirical expression for the time period of bare-frame RC Structures                                                                           |
| 28      |                                                                  | 8742        | Mitigating steel corrosion in reinforced concrete using rice husk ash blended cement polymer composite coatings                                |
| 29      |                                                                  | 8909        | Modelling of Concrete Slump with Support Vector Machine                                                                                        |
| 30      |                                                                  | 5934        | Effect of binary blend and superabsorbent polymer on self-curing ability of concrete                                                           |