

Session-3 (14:00-15:20)

14:00-14:40 14:40-15:20

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



Registration
Plenary Talks (7 & 8) (LHC CR 211), Prof. Ravi Sinha - Chair Session-1 (09:00-10:20) 09:00-09:40 09:40-10:20 Plenary Talk (7) Plenary Talk (8) Prof. Martin Mensinger, Topic: Buckling behaviour of longitudinal stiffened plates under biaxial loading - Recent research at TUM Session-2 (10:50-12:30) LHC CR202 LHC CR105 Prof. Alexander S. Brand, Topic : Applications of Quarry By-Products in Dr. Jittin Varghese, Topic: Beyond ortland cement: Alternative binders for Prof. Pradip Sarkar, Topic: Learning from failure: Forensic assessment and retrofit of a critical steel structure in a power plant (LHC CR201) 10:50-11:25 Keynote Lectures Prof. Vasant Matsagar, Topic: Response of Structures with Biocomposites under Multiple Loading Scenarios, (LHC CR001) Prof. Radhakrishna G Pillai, Topic: (LHC CR101) Cementitious Materials low-carbon construction Theme 3:Strengthening / Retrofitting techniques/ Structure under hazardous Theme 2: Computational mechanics Theme 3: AI and Machine Learning in Theme 2: Computational mechanics / Theme 3:Corrosion science & Durability Theme 3:Strengthening / Retrofitting techniques Theme 3:Strengthening / Retrofitting techniques Theme 3:Corrosion science & Durability Themes Theme 1: Advances in characterization Theme 1: Advances in characterization Numerical simulation structural applications Numerical simulation issues issues Abstract ID: 8452 (Evaluating the Impact of Triple Blending on the Mechanical and Elastic Properties of Concrete Using Silica Fume and GGBS as Cement Replacements) Abstract ID: 1464 (Assessment of ong-term corrosion effects on flexural strength of footbridge beams: perimental investigation and service lif estimation) Abstract ID: 4201 (An Al-Based Approach for Effective Implementation of Construction Supply Chain Management (CSCM) in Indian Infrastructure Projects) method) bstract ID: 9043 (Corrosion behaviour or galvanized steel and normal steel in relation to their length and size of the specimen) Abstract ID: 2887 (Enhancing compressive strength of AAC masonry walls using NSM steel welded wire mesh and barbed wire) Abstract ID: 9386 (Performance Evaluation of Retrofitted RC Building Using Site-specific Response Spectrum and Time History Analysis) Abstract ID: 907 (Shear behaviour of nasonry panels strengthened by bambo sticks) Abstract ID: 0173 (Experimental Abstract ID: 2428 (Response of Lateral Bearing Capacity of Monopile Foundation for Offshore Wind Turbine under Ground Improvement Technique) Abstract ID: 2379 (Experimental aluation of organic corrosion inhibitors repair mortars for enhanced durability of reinforced concrete structures) Abstract ID: 9404 (Development of Fibrous mortar for retrofitting applications using Alcofine and AR-Glass fibre) Abstract ID: 6144 (Optimizing concrete surface preparation for enhanced fiber bonding in structural strengthening)

Abstract ID: 4619 (Effect of steel fiber and opening location on the behaviour of deep beam) Abstract ID: 1435 (Repair and service life extension of grouted, post-tensioned concrete bridges) evaluation of thermo-hydro coupled mechanisms influencing spalling behaviour of UHPC at elevated efficient analysis of laminated composites: A new higher-order zigzag theory) high-performance fibre reinforced concrete using rapid migration test) temperatures) Abstract ID: 6095 (Machine learning Abstract ID: 6489 (Experimental and Abstract ID: 1752 (Seismic vulnerability Abstract ID: 6099 (Machine learning percent to predict carbonation depth in recycled aggregate self-compacting concrete contains supplementary cementitious materials) Abstract ID: 6501 (Static and synamic Abstract ID: 1458 (Investigation on the Abstract ID: 6347 (A Review on Abstract ID: 0319 (Effect of sucrose of Abstract ID: 2423 (Assessment of later capacity and ductility of corroded RC Abstract ID: 2829 (Mechanical and Abstract ID: 3767 (Seismic Vulnerability numerical study on textile reinforced concrete for enhancing structural assessment of a corroded G+4 reinforced concrete building using nonlinear static and dynamic analyses: A case study) 11:51-12:03 Technical Session 5 analysis of axially loaded beam-column composite behaviour of steel-framed framed Glass-Façade structure) bio-stabilization of earth-based 3D-printable geopolymer) chemical surface treatments for aluminum-GFRP bonding) essment of a Symmetrical RC Building with Soil Amplification Effects) duction, Properties, and Sustainabi structures using pushover analysis) performance of preloaded and unloade RC beams)

Abstract ID: 6944 (Numerical flexural analysis of honeycomb sandwich structure under quasi-static three-point loading) Abstract ID: 5425 (Flexural Behaviour of RC Beam Externally Strengthened Using High Performance Fiber Grid Reinforced Mortar System) Abstract ID: 0358 (Incorporation of Abstract ID: 6776 (Analytical and Abstract ID: 1515 (Al and Machine Abstract ID: 0814 (Tensile constitutive Abstract ID: 2645 (Enhancing the Abstract ID: 5184 (Crack classification and Abstract ID: 9264 (Retrofitting of fire stress-based formulations of Poisson's and shear-extension coupling effects in the softened membrane model) Abstract ID: 2069 [Experimental study on experimental study of structural performance of CFRP strengthened RC square columns with variable sizes) elationship for UHPC through inverse analysis of flexural test results) durability of one-part geopolymer cement: The role of superplasticizers) 12:03-12:16 Learning in Concrete Strength Prediction: A Review of Modern Prediction Models) damage evaluation in reinforced concrete beams using acoustic emission technique) damaged reinforced concrete colum using stainless steel wire mesh) Abstract ID: 5625 (A Review of Abstract ID: 8998 (Comprehensive review on recent development of hybrid fiber reinforced polymer system for civil engineering) Abstract ID: 3851(A Neural Abstract ID: 1856 (Incorporating Jute Abstract ID: 7354 (Buckling, transient at harmonic response of cross-ply and angle-ply laminated composite plates Abstract ID: 3565 (Flexural strength prediction of steel fiber reinforced concrete with machine learning) Abstract ID: 2200 (Test method to assess the passivation of steel in cementitious systems with low-carbon binders) Abstract ID: 5625 (A Review of Strengthening Strategles for Progressive Collapse Mitigation in Precast and RC Structures: The Potential of Stainless-Steel Wire Mesh) ostract ID: 4981 (Influence of construc Biochar in Cement Mortar for Improve Mechanical Properties and Carbon Footprint Reduction) etwork-Based Meta-Learner Framewo for Concrete Compressive Strength Prediction) 12:16-12:29 and demolition waste in geopolymer concrete for sustainable assessment) Photo Session (LHC Ground Floor) 12:40-14:00

Special Talks

Special Talk 1: Prof. Ravi Sinha, Topic : Resilience-based Seismic Design of Buildings - The Way Forward

Special talk 2: Prof. Balthasar Novak, Topic : Structural health monitoring towards more sustainability