

## StructE Natcon 2024 | Oral Presentations

Paper ID	Session THEME	Paper Title	Presenter Name	Institution/Affiliation/Company	City
15	Global Innovations in Structural Engineering	Design & Construction of pre tensioned U beam in highway structure - Ethiopia Expressway	Rakesh Kumar Mehta	Kalpataru Project International Limited	Mumbai
17	Global Innovations in Structural Engineering	Design of 60m UHPFRC Composite Bridge: Application and Working Example	Himanshu Sawhney	Force Structural Engineers Pvt Ltd	Mumbai
19	Global Innovations in Structural Engineering	Futuristic Structures and Metamaterials through Origami Engineering	Phanisri Pradeep Pratapa	Indian Institute of Technology Madras	Chennai
39	Global Innovations in Structural Engineering	Cut and Cover Tunnel Segment - Nagpur Mumbai Expressway	Yash Shah	Force Structural Engineers Pvt Ltd	Navi Mumbai
84	Global Innovations in Structural Engineering	Influence of Interface Gap on Compressive Behaviour of Axially Loaded Square CFST Stub Columns	Manoj Kumar	Birla Institute of Technology & Science	Pilani
98	Global Innovations in Structural Engineering	Study of variation of forces in piles and piers by changing pier height of a balanced cantilever bridge under an action of a pre-defined compensation force applied externally	Dibakar Saha	Ayesa India Pvt Ltd	Noida
106	Global Innovations in Structural Engineering	Design of Network Arch Bridge	Harshal Chandna	Force Structural Engineers Pvt Ltd	Navi Mumbai
116	Global Innovations in Structural Engineering	Leveraging State-of-the-art Technologies in the Construction of buildings at Chandigarh	Vamsi Krishna M	Larsen & Toubro Construction	Chennai
117	Global Innovations in Structural Engineering	Stress Flow in Railway Pier Based on Tilt Behavior	Chintan Jangam	Vidyavardhini's College of Engineering and Technology	Mumbai
12	Sustainability in Built Environment	Introduction of Monopile foundation system for Marine piers in Mumbai Coastal Road Project	Mayank Bajaj	Bridges Jacobs Solutions India Pvt. Ltd.	Gurgaon
23	Sustainability in Built Environment	Study of Sustainable Tunnel Construction by Evaluating Usage of Fibre Reinforced Concrete for Enhanced Efficiency and Safety under Various Geological Conditions	Isan Dey	Ayesa India Pvt. Ltd.	Noida
53	Sustainability in Built Environment	A Study of Earthquake and Fire Safety of Residential Buildings in Delhi, India	Deepak Bansal	HUDCO	South West Delhi

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90	Sustainability in Built Environment	Construction of Signature bridge between Okha And Beyt Dwarka in Gujarat State-A Case Study	Rajiv Ahuja	S.P.Singla Constructions Pvt. Ltd.	Gurgaon
107	Sustainability in Built Environment	Innovative Utilization of Plastic Waste in Sustainable Construction: Development of Interlocking Plastic Bricks	Raj Sameer Nahar	Mukesh Patel School of Technology Management & Engineering	Mumbai
114	Sustainability in Built Environment	Bacterial concrete way towards sustainability concrete technology	Rupali Rajaram Bhoir	Dr. Babasaheb Ambedkar Technological University	Lonere
119	Sustainability in Built Environment	Smart Villages and Rural Development Index of YEIDA Region	Arvind Kumar	Galgotias University	Greater Noida
120	Sustainability in Built Environment	Climate-Conscious Design: Rethinking Building Design for The Future in Hot and Dry Region of Rajasthan	Anish Kumar	CSIR-CBRI, Roorkee	Roorkee
57	AI&ML application in Structural Engineering	Development of a Novel ANN Model for Earthquake Resistant Design of RC Buildings in Hilly Terrain	Abhishek kumar	NIT Durgapur	Gaya
58	AI&ML application in Structural Engineering	Machine learning approaches in prediction of bridge dynamic response	Rajat Abhay Sirsikar	Indian Institute of Technology Roorkee	Roorkee
73	AI&ML application in Structural Engineering	New Empirical Equation for Fundamental Time Period of RC Moment Resisting Frame Buildings using Machine Learning Algorithms	G Gunavanth	National Forensic Sciences University	Gujarat
74	AI&ML application in Structural Engineering	Optimizing Wind-Induced Interference on Mono-Slope Roofs: Insights from CFD Modeling and Machine Learning Validation	Deepak Sharma	Delhi Technological University	New Delhi
78	AI&ML application in Structural Engineering	Machine-Learning-Based Flood Vulnerability Assessment of Riverine Bridges Incorporating Scouring Effects	Divesh Sharma	Indian Institute of Technology Mandi	Mandi
104	AI&ML application in Structural Engineering	Application Of Advance Machine Learning Models on Predicting Compressive Strength of UHPC	K Akhilendra Sharma	Visvesvaraya National Institute of Technology Nagpur	Nagpur
8	Structural Resilience - Vision for the Future	Study of Performance of NSE Subject to Seismic Movements Using Shake Table Test	Shounak Mitra	Hilti India Pvt. Ltd.	Gurugram

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20	Structural Resilience - Vision for the Future	Thermal Behaviour of Different types of Concrete Subjected to Elevated Temperature	Nawal Kishor Banjara	CSIR-Central Building Research Institute	Roorkee
25	Structural Resilience - Vision for the Future	Seismic base shear analysis for multi-storeyed buildings using base isolation and dampers	Agamoni Das	Jadavpur University	Gurgaon
41	Structural Resilience - Vision for the Future	Effect of Stiffness Modifier on Predicted Seismic Performance of RC Buildings	Nishant Kumar	Indian Institute of Technology	Roorkee
51	Structural Resilience - Vision for the Future	Blast performance and residual strength of concrete-filled cold formed built-up (CFCFST) and RC columns	Md Muslim Ansari	CSIR-Central Building Research Institute	Roorkee
56	Structural Resilience - Vision for the Future	Performance of exterior fascade on reinforced concrete frame under cyclic loading	Devyani Tewatia	Indian Institute of Technology	Roorkee
70	Structural Resilience - Vision for the Future	Evaluation of in-plane shear response in textile-strengthened masonry walls	Deekshitha M K	AcSIR, CSIR-CBRI	Roorkee
97	Structural Resilience - Vision for the Future	3D Numerical Analysis and Optimization of Piled-Raft Foundations	Vishal Kumar Mourya	Indian Institute of Technology (BHU)	Varanasi
118	Structural Resilience - Vision for the Future	Design of Multistory Code Exceeding Building through performance-based seismic design	Vasudev Tulsi Patel	Vidyavardhini's College of Engineering and Technology	Mumbai
6	Health Monitoring, Forensic Structural Engineering	Identifying Structural Damage through Robust Computer Vision and Stochastic Subspace Analysis within a Bayesian Framework	T Jothi Saravanan	Indian Institute of Technology	Bhubaneswar
24	Health Monitoring, Forensic Structural Engineering	Advancements in Structural Health Monitoring with PZT Sensors: A Comprehensive Review	Avinash Diwakar Jakate	Government College of Engineering Amravati	Amravati
42	Health Monitoring, Forensic Structural Engineering	Integrating Forensic Investigation with Risk Assessment for Flyover Bridges: A Case Study	Sarat Chandra Malluru	Mahindra University	Hyderabad
64	Health Monitoring, Forensic Structural Engineering	Non-destructive detection of bond slip failure in fiber reinforced concrete using piezo sensors	Ramesh Gomasa	Mahindra University	Hyderabad

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66	Health Monitoring, Forensic Structural Engineering	Piezo Sensor-Based Detection of Damage in Fiber-Infused Epoxy Bamboo Composites	Visalakshi Talakokula	Mahindra University	Hyderabad
75	Health Monitoring, Forensic Structural Engineering	Seismic Performance Evaluation of High-Rise RC Building with Shear Wall Using AI	Rohit Patel	National Institute of Technology	Durgapur
16	Advances in Construction Materials & Technologies	The Impact of Accelerators on Compressive Strength and Setting Time of Cement and Agro-Industrial Ash Blended Cement for Achieving High Early Strength in 3D Concrete Printing	Ashish Kapoor	CSIR-Central Building Research Institute	Roorkee
29	Advances in Construction Materials & Technologies	Influence of Interfilament Bond Characteristics on the Load Deflection Behaviour of 3D Printed Beam-A Numerical Study	Biswajit Pal	CSIR-Central Building Research Institute	Roorkee
40	Advances in Construction Materials & Technologies	Investigation of Bamboo-Reinforced Concrete Structures: Field Insights from Ground-Level Building Project	Harshitha Alishetty	Indian Institute of Technology	Bombay
49	Advances in Construction Materials & Technologies	Axial behaviour of reinforced concrete filled steel tube stub columns with perforations exposed to fire	Lokesh S	AcSIR	Roorkee
81	Advances in Construction Materials & Technologies	Transverse Impact on Beams of different materials	Dulal Goldar	Delhi Technological University	New Delhi
91	Advances in Construction Materials & Technologies	Behaviour of concrete-filled cold-formed steel columns under axial loading	Chanchal Sonkar	CSIR-Central Building Research Institute	Roorkee
115	Advances in Construction Materials & Technologies	Investigating Bond Characteristics and Structural Efficiency of High-Density Polyurethane Foam Infill in Aluminum and Light Gauge Steel Tubes	Padmaja Gokaraju	Kirby Building Systems & Structures India Pvt.Ltd	Hyderabad
130	Advances in Construction Materials & Technologies	Sustainable Design Using Bamboo: Case Study of Bamboo Research and training Centre	Abhay Gupta	Skeleton Consultants Pvt Ltd.	Noida