

IOEGC-16 :: Session Details (Day 2 - April 19, 2025)

S.N.	Conference ID	Submission ID	Submission Title	Presenting Author	Session	Mode of Presentation
1	D1-1	540	Feature Analysis of Key Parameters Influencing Groundwater Levels in Bara, Nepal	Anjana Mahto	D1 Environmental Engineering	Online
2	D1-2	561	Design and Simulation of a Complete Mix Activated Sludge System for Itahari Sub-Metropolitan City Using GPS-X Software	Sudesh Limbu		
3	D1-3	29	PET-dust bricks: A Sustainable Approach to Solid Waste Management	Nitesh Thakur		
4	D1-4	334	A Geospatial Approach To Soil Erosion And Sediment Yield In The Seti Gandaki River Basin, Nepal: A Case Study of Madi Watershed	Sambridhi Karki		
5	D1-5	296	Activated Carbon from Jacaranda Seed Pods for Energy Storage	Ashman Karki		
6	D2-1	33	Malware Classification in a Multicontroller SDN Environment	Utkarsha Shukla	D2 Cybersecurity & Network Security	Online
7	D2-2	73	Web Attack Detection and Classification using Long Short Term Memory	Prayash Mishra		
8	D2-3	176	Network Intrusion Detection System With Cross-Domain Adaptability Using BERT Masked Language Model	Ritu Ratnam		
9	D2-4	186	Adversarial Attacks on Malware Classification Models	Gita Gurung		
10	D2-5	242	URL Based Website Phishing Detection System Using SVM, KNN and XGBoost Algorithms	Nanumaya Kafle		
11	D2-6	401	Multimodal Approach For Malware Classification	Sachin Koirala		

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12	D3-1	486	Gap Acceptance Behavior of Two wheelers of Minor Road at Unsignalised T-Intersection under mixed traffic condition: A Case study of Pulchowk Intersection	Aashray Mahat	D3 Traffic Engineering	Online
13	D3-2	318	Evaluating Pelican Crossings: An Assessment of Awareness,Utilisation and Compliance	Merina Shrestha		
14	D3-3	336	Behavioral Dynamics of Vehicle Pedestrian Interaction at Unsignalized crosswalk: A PET based Study of Shantinagar--Aloknagar Crosswalk	Sandesh Lamsal		
15	D3-4	249	Calibration of Social Force Model Parameters in VISSIM: A Case Study of Signalised Crosswalk at Madan Bhandari Road, Civil Service Hospital, Kathmandu	Pragyan Shrestha		
16	D3-5	250	Study of the Platooning Condition in Two-Lane Intercity Highway: A case study of Muglin-Narayanghat Road (NH44-04)	Kshitiz Dhakal		
17	D3-6	543	Study on Fundamental Traffic Flow Diagram in Heterogeneous Traffic Flow Condition along the Prithivi Highway	Rabindra Paudel		
18	D4-1	60	Experimental investigation of the surface dielectric strength of insulating tubes supporting air terminals of electrically insulated lightning protection systems under standard lightning impulse voltages	Akrit Acharya	D4 Electrical Generation and Transmission-II	Physical
19	D4-2	61	Experimental Investigation of the dielectric strength of the insulating standoffs of electrically insulated lightning protection system under standard lightning impulse voltages	Gyanendra Kumar Kurmi		
20	D4-3	197	Regenerative Energy Utilization of PMSM for Elevator Rescue System	Alok Yadav		
21	D4-4	289	Contingencies Based Strategy for Transmission System Upgradation	Sujeet Mahato		
22	D4-5	365	Assessment of Optimal Feeder Configuration Integrating EV Loads and Solar PV Generation for Urban Nepalese Distribution Network	Maquesood Alam Shekh		
23	D4-6	28	A Robust Method of Fault Classification and Localization in Nepalese Distribution System	Awnish Kumar Thakur		

S.N.	Conference ID	Submission ID	Submission Title	Presenting Author	Session	Mode of Presentation
24	E1-1	172	Soil-Structure-Structure Interaction (SSSI) Based on Substructure Configurations	Buddha Dahal	E1 Rock-Soil Mechanics	Online
25	E1-2	414	Numerical Validation of Different Strengthening Techniques as Reinforcing Methods for Rammed Earth Structures	Rujan Pokharel		
26	E1-3	191	Rock Slope Stability Assessment of the Cut Slope: A case study at the Dam Site of Tanahun Hydropower Project	Dipak Lamichhane		
27	E1-4	126	Settlement Analysis in Weak Rock Mass Due to Underground Excavation: A Case Study of Kathmandu University Research Tunnel	Sujeet Dhakal		
28	E1-5	479	Impact of Embankment Loading on Liquefaction Behavior of Underlying Soil: A Plaxis 2D Study	Reymond Khadka		
29	E1-6	128	Rock slope stability analysis of Chunpahara hill at Bimalnagar, Tanahun in Western Nepal	Sunisha Tiwari		
30	E2-1	181	Nepali Handwritten word recognition using Vision Transformer	Vaishnavi Saud	E2 Naural Language Processing	Online
31	E2-2	185	An Encoder Decoder Model for Grammatical Error Correction of Nepali Text	Dhiraj Bashyal		
32	E2-3	277	Implementation of Neural Nepali TTS Based on Fastspeech 2	Prajwal Bhandari		
33	E2-4	328	Nepali Speech Transcription and Summarization using Whisper and T5	Priyanka Ojha		
34	E2-5	397	End to End Automatic Speech Recognition in Sanskritam from Raw Waveforms and its Adaptation to Nepali using Second Pass (Text-to-Text) Language Model	Siddhant Baral		
35	E2-6	222	Transformer Based Data Extraction From Nepali Citizenship Document	Shreekrishna Timilsina		

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36	E3-1	368	Mittigation of Over Voltage issue in Manang 33/11 KV Syarku S/S	Raju Mahato	E3 Electrical Engineering	Online
37	E3-2	458	Assessment of the Optimal Approach for Short-Term Load Forecasting at Nuwakot Distribution Center Utilizing Smart Meter AMI Data	Saroj Kumar Sah		
38	E3-3	518	Coordinated Operation of Virtual Synchronous Machines in Interconnected system Using Droop Control Mechanism	Prakash Pandey		
39	E3-4	367	Application of ANN in Enhancing Power System Reliability through HIF Detection	Abinash Kshatri		
40	E3-5	173	Hybrid AI Model for TL Fault Identification	suresh prajapati		
41	E3-6	524	Design and Performance Analysis of Dual Stage Multifunctional PV Inverter for Non-Active Current Compensation Using ANFIS Controller	Dev Kumar Kalwar		
42	E4-1	140	Multi Query Optimization in a Database by Implementing Quantum Annealers	Kushal Bhattarai	E4 Quantum Computing	Physical
43	E4-2	254	Leveraging Quantum Support Vector Machines for Enhanced Multiclass Classification of Interstitial Lung Diseases	Pradip Sapkota		
44	E4-3	434	Quantum Transfer Learning For Enhanced Brain Tumor Segmentation in Medical Imaging	Shiv Shankar Sah		
45	E4-4	529	Optimization of Link Fidelity in Quantum Repeater Network	Arjun Neupane		
46	E4-5	84	3D Convolutional Neural Network-Based Lipreading with Connectionist Temporal Classification (CTC)	Kushal Adhikari		
47	E4-6	311	Spam Detection in SMS using AI based Spam Filter	Shruti Ranjan		

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48	F1-1	253	Landslide Susceptibility Assessment of Jajarkot and West Rukum, Nepal using Weight of Evidence and Frequency Ratio Method	Puja Maharjan	F1 Landslides Susceptibility	Online
49	F1-2	565	Spatial and Temporal Analysis of Landslide Disaster in Karnali Province, Nepal	Lokendra Rawat		
50	F1-3	535	Landslide Susceptibility Mapping of Kulekhani Watershed Area	Damodar Thapa		
51	F1-4	418	Evaluating the Impact of Sampling Techniques on Landslide Susceptibility Mapping Along Nepal Siddhartha Highway Using Statistical and Machine Learning Models	Sandip Paudel		
52	F1-5	416	Landslide Susceptible Mapping along Maldhunga- Beni- Jomsom Road Section for Hill Road Disaster Risk management	Prabina Gyawali		
53	F1-6	511	Integrating Machine Learning and Geospatial Analysis for Landslide Susceptibility Mapping in Jajarkot District, Nepal	Parshuram Dhungana		
54	F2-1	422	Examining Authenticity in Architectural Heritage Reconstruction of Nepal	Bhawani Baruwal	F2 Architecture, Technology and Conservation	Online
55	F2-2	487	Continuity of Tiered Temple Architecture in Doleshwor Mahadev Temple	Archana Basnet		
56	F2-3	500	Study of Natural Ventilation Patterns in Vernacular Buildings at Tallo Kopche, Dhankuta	Durga Raj Aveng		
57	F2-4	504	Perception vs. Reality: Design Professionals and Residents in Pre- and Post-Pandemic Architecture	Kriti Manandhar		
58	F2-5	526	A role of stack effect in thermal comfort in residential building- a case of Morang	Surya Guragain		
59	F2-6	537	Systematic Review of Behavior Setting in Campus Landscape	Ishwor Khanal		

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60	F3-1	415	Post-Disaster Road User Cost Analysis- Case Study of BP Highway (NH13)	Shankar Khanal	F3 Transportation	Online
61	F3-2	241	Geological Challenges in Tunneling: Case Studies of Two Prominent Projects in Nepal	Aalok Yadav		
62	F3-3	198	Field and Numerical Stress-Strain Evaluation of Pavement Reinforced with Geogrid under Dynamic Loading	Aanchal Tiwari		
63	F3-4	301	Willingness To Pay For Reducing Fatal Road Crashes By Long and Medium Route Public Vehicle Passengers	puspa sukubhattu		
64	F3-5	129	A Case Study of Tunnel Portal Instability at Siddhababa Road Tunnel	Krishna Prasad Sharma		
65	F4-1	493	Synthetic Data Generation of Electronic Health Records using CTGAN, Transformers and Diffusion Models	Girban Adhikari	F4 Artificial Intelligence / Machine Learning- III	Physical
66	F4-2	41	Semantic Segmentation of Medical Images for Brain Tumor Detection using DeepLabv3+ Model	Bibat Thokar		
67	F4-3	566	5G End-to-End Optimal Network Planning using Metaheuristic Algorithms	Prabin Dhakal		
68	F4-4	272	Endostab: A Pre-Processing Tool for Endoscopy Videos	Sabita Rajbanshi		
69	F4-5	223	Movies Ratings Classifier using Random Forest Model	Biswash Koirala		
70	F4-6	125	Dermatoscopic Image Classification Using EfficientNet and SpinalNet with Data Balancing and AI Explainability	Datenji Sherpa		

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71	G1-1	522	Assessing Geohazard Risks in Hydropower Costs for Sustainable Power Development in Nepal	Bishal Bista	G1 Geotech	Online
72	G1-2	485	Geo-technical Evaluation of Water Hyacinth(Jalakumbhi) Fiber-Reinforced Soil	Anil Adhikari		
73	G1-3	108	Performance Evaluation of Residential Buildings Constructed at Differential Foundation Level	Shrutee Karna		
74	G1-4	563	Numerical Analysis of Stone Columns as Ground Improvement for Soft Soil – A Case Study	Chhatra Jora		
75	G1-5	120	Dynamic Soil Structure Interaction For High Rise Buildings In Kathmandu Valley	Bikram Paudel		
76	G1-6	382	Performance Evaluation of Raft Foundation with Embedded Piles Analytically and on varied loading conditions using Plaxis 3D: A Case Study on Building Complex at Maharajgunj, Kathmandu	Suresh Chaulagain		
77	G2-1	132	Dynamics of Land Use Change of Urban Fringe and Possible Intervention: A Case Study of Dhapakhel, Lalitpur	Bhagyashree Maharjan	G2 Land use Planning	Online
78	G2-2	156	Defining the Morphological Characteristics of Tatopani in context of Tourism	Mahendra Raj Khatri		
79	G2-3	327	Fate of Agricultural Areas of Saptari District of Nepal: A Temporal Land Use Land Cover Change (LULC) Analysis Using Remote Sensing And GIS	Bishal Thapa		
80	G2-4	175	Temporal Study of Land Use Change in East Kathmandu : A GIS Based Study on Agricultural Land Transformation and Urbanization Trends	Subash Kalathoki		
81	G2-5	546	Territoriality in Urban Design: A Systematic Review of Its Relationship with Spatial Organization and Hierarchy of Spaces in Neighborhood Planning	Dipika Tandukar		
82	G2-6	551	Urban Expansion In Green Zones Of Urban Edge: A Case Of Giri Bandu Tea Estate Birtamod, Jhapa	Binita Khadka		
83	G2-7	564	Role of Urban Green Space for Social Sustainability: A Case of Hetauda	Dikshya Shrestha		

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84	G3-1	293	Evaluation of the Dynamic Response of Underground Transportation Tunnels to Surface Explosions Considering various Rock Masses	Vivek Mandal	G3 Tunneling	Online
85	G3-2	330	Analysis of stress-induced plastic deformation in the headrace tunnel of Bhotekoshi-1 Hydropower Project, Sindhupalchowk, Nepal	Sandesh KC		
86	G3-3	165	Structural and Stress Induced Stability Evaluation of the Adits and Main Access Tunnels of Bhotekoshi-1 Hydropower Project, Sindhupalchowk	Sagar Adhikari		
87	G3-4	82	Identifying the Ideal Underground Mining Technique for Ganesh Himal Mine, Nepal	Nischal Khanal		
88	G3-5	107	Construction Cycle of Drill and Blast Tunnelling in Siwaliks: A Case Study of Siddhababa Road Tunnel	Sijan Adhikari		
89	G3-6	255	Blockfall Analysis at Tunnel Construction Site: A Case Study of The Siddhababa Road Tunnel, Nepal	Bishal Khadka		
90	G4-1	366	Generative Adversarial Network for Image Inpainting	Sristi Suman	G4 Computer Vision & Image Processing-II	Physical
91	G4-2	398	Image Captioning using VGG16/XCEPTION-LSTM	Manoj Luitel		
92	G4-3	300	Virtual Painting System using Finger Gesture Detection and Recognition	Bibat Thokar		
93	G4-4	527	3D Scene Reconstruction from RGB Images Using Optimized Gaussian Splatting	Amrit Aryal		
94	G4-5	23	Offline Signature Verification Using CNN Based InceptionResNetV2 Architecture	Arju Bindukar		
95	G4-6	227	Analyzing Computational Efficiency for Facial Kinship Verification with Fusion of Deep and Shallow Features Using CNN and LBP	Prajwol Karki		