

15th IOE Graduate Conference : List of Papers (Session-wise)

ID	Title	Presenter	Session
19	Design of SRGAN using RRDB on Generative Model and PatchGAN on Discriminative Model	Raju Poudel	A1
27	Topic-Wide Keyword Generation from Nepali Documents through Graph-Based Extraction and LDA Topic Models	Sagar Shrestha	A1
33	The Hybrid deep learning model for Musculoskeletal Abnormality Detection	Sudip Dahal	A1
61	Deep Learning for Waste Management: Leveraging YOLO for Accurate Waste Classification	Prateek Paudel	A1
85	Classifying Music Genres Using Machine Learning and Deep Learning with Explainable AI(XAI)	Bikram Karki	A1
86	Mode-Based Real Time Music Generation Using LSTM and GAN	Prabin Bohara	A1
20	Analysis of Arc Flash and Mitigation Techniques in Substation Protection of Attariya Substation Nepal	In Bahadur Rai	A2
25	Reliability Assessment of Power Distribution System of Industrial Estate: A Case Study in Balaju Industrial Estate	Mitra Kumar Rai	A2
35	Implementation of various demand response programs across the countries and its impact on the bulk power system reliability	Madhav Sapkota	A2
40	A Current-Controller for integration of Hybrid Microgrid in Existing system	Supriya Pandeya	A2
43	Analysis of Effects of Loading Conditions on Condition Monitoring of Induction Machines	Chandan Pokhrel	A2
60	Reliability Enhancement of Electric Distribution Network Using Optimal Placement of Distributed Generation. A Case Study of 33/11KV Udipur Distribution Substation feeders, Lamjung	Bibas Raj Acharya	A2
22	Nepali Question Answering System from Multilingual BERT Model and Monolingual BERT Model	Upanshu Thapa	B1
23	A Hybrid Approach for Sugarcane Leaf Disease Classification Using CNN and Gradient Boosting Algorithms	Bibek Thapa	B1
28	Enhancing NVMe Storage Performance with Latency-Aware User Layer Semantics and Dynamically Adjusted Timeouts	Manish Gyawali	B1
51	Sahaj Yatra: A Digital approach to transportation	Pranis Gurung	B1
52	End to End Automatic Speech Recognition in Sanskritam from Raw Waveforms and its Adaptation to Nepali using Second Pass Language Model: E2E Nepali ASR	Siddhant Baral	B1
15	Landslide Susceptibility Mapping under Climate Change Scenario using XGBoost Algorithm	Arhat Ratna Kansakar	B2
16	Modeling Transient Rainfall Effects on Landslide Occurrence and Debris Flow: Insights from Chandragiri	Ribash Dahal	B2
17	Geogrid Reinforced Flexible Pavement: Thickness Reduction Potential and Increment in Service Life	Kabin Lamichhane	B2
41	LEM based analysis of road-level landslide at Guthitar of Dharan-Dhankuta Road	Puskar Raj Gautam	B2
54	Influence of organic matter on Engineering Properties and Shear Properties of soil: A case study of Kathmandu clay	Jenish Sharma	B2
74	Analysis of Climate Induced Landslide Susceptibility Map Using Machine Learning Algorithm: A Case Study Of Nuwakot District, Nepal	Prem Raj Bhattarai	B2

* **Sessions A1, B1, and D1 will be done with physical presence at the venue, while all the remaining sessions will be conducted online.**

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ID	Title	Presenter	Session
34	Automatic License Plate Detection and Recognition using YOLOv8 and CNN	Kshitiz Gajurel	C1
42	Mechanical Automation with Vision: A Design of Rubik's Cube Solver	Abhinav Chalise	C1
49	Quantum-Classical Hybrid approach for COVID-19 Severity Classification from Chest CT Images	Prabhakar Singh	C1
63	Nepali Sign Language Letter Detection and Finger Spelling using Mediapipe and CNN	Guptaraj Shrestha	C1
64	An Integrated Approach for Wildlife Recognition in Nepal using Video Along with Audio	Zishan Siddique	C1
78	Automatic Identification of Monuments in Images using Single-Shot Detectors	Ujjwal Paudel	C1
30	Stakeholder Analysis in Housing Partnership: The urban context of Nepal	Nistha Nakarmi	C2
45	Risk Assessment in Selected Hydropower Projects of Nepal under Engineering, Procurement and Construction (EPC) Contracts	Tikaram Niroula	C2
56	Solar PV Lift Irrigation for Agriculture in Narainapur Rural Municipality, Banke	Prajwol Lamichhane	C2
58	Irrigation Performance of Western Canal, Kamala Irrigation Project Using Remote Sensing and GIS	Shovakant Raut	C2
75	The Environmental Performance Assessment: Life Cycle Assessment for Energy and Emissions of R.C.C Framed versus Rammed Earth Residential Buildings in Nepal	Shrijan Basnet	C2
80	Seismic Vulnerability Assessment of Historic Masonry Structure: A Case Study of Bindhyabasini Temple	Magnus Upadhyay	C2
31	Design, Fabrication and Testing of Electric Pottery Wheel	Bikram Gautam	D1
67	Development and Testing of Non-Contact and Wireless Tachometer	Sajan Bhujel	D1
70	Comparative Analysis of Passive and Semi Active Suspension System	Suraj Kumar Chaurasiya	D1
76	Numerical Study and Comparison of Drag Coefficient of Sphere at Various Blockage Ratios	Hardik Shrestha	D1
83	Influence of Etchants and Factors Affecting Etching Duration on Microscopic Observation of Steels	Manish Devkota	D1
44	Optimal Siting and Sizing Of SSSC in INPS using Modified SALP Swarm Algorithm Considering Optimal Reactive Power Dispatch Problem	Priyanka Karna	D2
46	Deep Learning-based Forecasting and Bidding Strategies: Analysis of Nepal's Participation in Indian Energy Exchange	Elina Parajuli	D2
57	Optimal coordination of directional over-current relays in IEE 3-bus, 15-bus and 30-bus networks using sine cosine algorithm	Madhav Prasad Nagarkoti	D2
69	Impact of Sampling Rate Variations on Signal Spectrum Based Fault Diagnosis of Induction Motor	Ashish Paudel	D2
79	An Explicit Formula Based Estimation Method for Reliability of 11 kV Baneshwor Feeder	Rajesh Kumar Pandey	D2
87	A Power System Contingencies Ranking using Machine Learning	Rupesh Kumar Sah	D2
21	Evaluating Multi Linear Regression Prediction Model for Optimum Bitumen Content in Marshall Mix Design	Moti Ram Giri	D3
36	Correlation Between CBR Value and Plasticity Index of Base Course Material in Flexible Pavement	Saroj Prasad Shah	D3
37	Modelling Pedestrian-Vehicle conflict severity at uncontrolled midblock crossings inside Kathmandu Valley	Ashish Banstola	D3
38	Mixed Logit and Probit Model for intercity Mode Choice in Nepal	Arjun Sigdel	D3
59	Spatial Analysis of Road Traffic Crash Hotspots in Kathmandu Valley, Nepal	Anuradha K.C.	D3

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