The 33rd Annual Newfoundland Electrical and Computer Engineering Conference (NECEC) November 14, 2024 at Holiday Inn St. John's, NL 180 Portugal Cove Rd St. John's, NL

Time		St. Johns, NE			
8:30 AM	REGISTRATION				
9:00 AM	KEYNOTE SPEAKER (SALON C/D)				
	Software & Computing Room Conception Bay North Session Chair: Reza Shahidi	AI, Data Science & Machine Learning I Salon B Session Chair: Vinicius Prado	AI, Controls, & Robotics I Salon A Session Chair: Oscar De Silva	Power and Alternative Energy I Room Conception Bay South Session Chair: Robert Cove	
10:00 AM	Sidra Anwar (48)	Wanglong Lu (2)	Kaijie Shi (40)	Fatemeh Kafrashi (9)	
10:20 AM	Anahita Nikaien (36)	Thakshila Thilakanayake (19)	Jiaoyang Lu (35)	Lynna J Otabil (34)	
10:40 AM	COFFEE BREAK (Poster Presentations Paper # 31, 43)				
	Remote Sensing & Earth Observations I	AI, Data Science & Machine Learning II	AI, Controls, & Robotics II	Power and Alternative Energy II	
	Room Conception Bay North	Salon B	Salon A	Room Conception Bay South	
	Session Chair: Weimin Huang	Session Chair: Vinicius Prado	Session Chair: George Mann	Session Chair: Robert Cove	
1:00 AM	Michael Royle (37)	Nirasha Herath (18)	Ruslan Masinjila (13)	Khan Awais Khan (15)	
1:20 AM	Joe Craig (39)	Ahsan Mustafa (14)	Juan S. Garcia-Hernandez (44)	Syed Nafiz Imtiaz (10)	
1:40 AM	Yi Li (12)	Adithya Sudhan (26)	Sachithra H Atapattu (3)	Nnaemeka Nwauzor (22)	
2:00 PM	Zahra Jafari (4)	Sondos Omar (23)	Muhammad Adeel Ahsan (46)		
L2:20 PM	LUNCHEON SPEAKER (SALON C/D)				
	Remote Sensing & Earth Observations II Room Conception Bay North Session Chair: Reza Shahidi	Al, Data Science & Machine Learning III Salon B Session Chair: Oscar De Silva	Women In Engineering Event	Power and Alternative Energy III Room Conception Bay South Session Chair:	
2:00 PM	Jesse Chen (5)	Samarasimha Reddy Chittamuru (17)	Salon A Session Chair: Jingrong Wang	Asad Mehmood Hassan (24)	
2:20 PM	Xin Qiao (7)	Chidiebere S Metu (41)	Session chair. Jingrong wang	Salmanur Rahman (27)	
2:40 PM	Zhiding Yang (1)	Hassanali Marefat (47)		Muhammad Kashif (33)	
3:00 PM	COFFEE BREAK (Poster Presentations Paper # 29, 32, 20)				
	Remote Sensing & Earth Observations III	AI, Data Science & Machine Learning IV	AI, Data Science & Machine Learning V	Power and Alternative Energy IV	
	Room Conception Bay North	Salon B	Salon A	Room Conception Bay South	
	Session Chair: Eric Gill	Session Chair: Jonathan Anderson	Session Chair: Xianta Jiang	Session Chair: Sheikh Rabbi	
3:20 PM	Ridwanullah Abdulkareem (16)	Benjamin F Stanley (11)	Meysam Shirin Nezhad (45)	Manish Patel (6)	
3:40 PM	Masoud Torabi (21)	Kusal B Tennakoon (30)	Chidiebere S Metu (42)	Afzal Ahmed (8)	
4:00 PM	Mohammadali Hemati (25)				
4:20 PM	CLOSING REMARKS AND AWARD PRESENTATION IN SALON C/D				

The presentation id is indicated inside brackets next to each presnter. The titles of the talks can be found in the attached presentation title list pdf.

The 33rd Annual Newfoundland Electrical and Computer Engineering Conference (NECEC) November 14, 2024 at Holiday Inn St. John's, NL 180 Portugal Cove Rd St. John's, NL

Presentation ID	Presenter	Presentation Title	
1	Zhiding Yang	A Hybrid Approach for Wave Height Estimation from Rain-Contaminated Radar Images Based on Segmentation and Iterative Dehazing	
2	Wanglong Lu	TextDoctor: Unified Document Image Inpainting via Patch Pyramid Diffusion Models	
3	Sachithra H Atapattu	Enhancing the Region of Attraction of a Multi-Rotor UAV Using Neural Network-Based iLQR Control	
4	Zahra Jafari	A Novel Method for Estimation of Sea-Surface Wind Speed from SAR Imagery	
5	Jesse Chen	An Evaluation of the Effect of Seasonal Evolution on GNSS Reflectometry Based Sea Ice Classification Using Random Forest Classifiers	
6	Manish Patel	Optimization-Based Design and Reliability Assessment of a Hybrid Energy System for Natuashish, Labrador	
7	Xin Qiao	Ocean Surface Wind Speed Estimation From GNSS-R Data Using CNN-Transformer Network	
8	Afzal Ahmed	A Comparative Analysis of Media Players Power Consumption on Windows 11 and Ubuntu 24.04.1	
9	Fatemeh Kafrashi	Design and Simulation of a Floating Solar-Powered Reverse Osmosis Drinking Water System for Kish Island	
10	Syed Nafiz Imtiaz	Design and Simulation of a 500 MW wind farm for H2 project near Stephenville, Newfoundland.	
11	Benjamin F Stanley	Search Ordering for StarCraft Build Order Optimization	
12	Yi Li	Improved PCS Algorithm for Ocean Current Retrieval From X-Band Radar Data	
13	Ruslan Masinjila	Object Manipulation using Multimodal, Tactile-based Sensing and Reinforcement Learning	
14	Ahsan Mustafa	Fine-Tuning Large Language Models for Analog Circuitry	
15	Khan Awais Khan	Power Consumption While Using Ad-Blockers on ARM-Based CPU	
16	Ridwanullah Abdulkareem	FPGA-Based Real-Time Signal Processing for Ocean Monitoring with GNSS-R Integration	
17	Samarasimha Reddy Chittamuru	Machine Learning-Based Power Prediction for the Icebreaker Henry Larsen Using Vessel Motions and Environmental Data in Open Water Conditions	
18	Nirasha Herath	A Quality Indicator Module for LiDAR SLAM in Aerial Navigation Using a Regression-Based CNN	
19	Thakshila Thilakanayake	Generative Adversarial Network Based Synthetic Radar Image Generation Method for Automotive Perception Datasets	
20	Nirasha Herath	Real-Time Video Super-Resolution Using Generative Adversarial Networks	
21	Masoud Torabi	Enhanced Radar Cross Section Modeling for Ocean Surface	
	Nnaemeka Nwauzor	Dynamic Simulation of Solar Energy System for A Shop in Nigeria Providing Community Cellphone Charging Service.	
23	Sondos Omar	Steep Slopes- Modifying Deep Neural Networks to Mitigate the Vanishing Gradient Problem	
24	Asad Mehmood Hassan	Design and Analysis of a Photovoltaic System for a House in Model Town, Lahore, Using HOMER Pro.	
25	Mohammadali Hemati	Mapping Carbon Dynamics in Coastal Wetlands: A High-Resolution PlanetScope Expedition	
26	Adithya Sudhan	Automated Dialogue Order Processing using Small Large Language Models	
27	Salmanur Rahman	Design and Analysis of Hybrid Power System for Rigolet, Labrador	
29	Senal Chandrasekara	HsHFNet – An Artificial Neural Network For Significant Wave Height Estimation from High Frequency Radar Data Built from the Ocean Up	
30	Kusal B Tennakoon	AutoLD: An Automatic Landmark Detection System for Detecting Salient Landmarks in Aerial Images	
31	Asif I Patel	Developing and simulating a separate microgrid in a rural region in India using sustainable sources of energy	
32	Bahman Khameneh Pour	Designing Sustainable Energy Systems: The Case of Bell Island's Hybrid Renewable Power	
33	Muhammad Kashif	Dynamic Modeling and Simulation of an Isolated Hybrid Power System Designed for Urban Areas in Pakistan	
34	Lynna J Otabil	Design and Analysis of a Hybrid Power System for Cartwright, Labrador	
35	Jiaoyang Lu	Interaction Force Estimation for Haptic Bilateral Teleoperation via Machine Learning	
	Anahita Nik aien	Light Field Frame Translation	
37	Michael Royle	Software Defined Radio Noise Radar for UAS Detection	
39	Joe Craig	Design of a surface wave radar receive array element	
40	Xianta Jiang	Improve Curricular Learning for Universal Dexterous Grasping	
41	Chidiebere S Metu	Deep Learning for Automated Defect Detection in Industrial Infrastructure: Enhancing Accuracy with Diverse Datasets and YOLOv10	
42	Chidiebere S Metu	Deep Learning-Based Infrastructure Crack Detection: An Enhanced Approach for Image Recognition	
43	Shatadru Bipasha Biswas	A comparative study on the feasibility of wind turbines over conventional fossil fuels in selected coastal Labrador communities	
44	Juan S. Garcia-Hernandez	Angular position control of a low-tension quaternion joint	
45	Meysam Shirin Nezhad	RAGs for Real-time Data Retrieval in Smart Grid Systems	
46	Muhammad Adeel Ahsan	Convex Trajectory Optimization for UAVs using Differential Flatness and Bezier Curves	
47	Hassanali Marefat	Signature Extraction for Bank Cheque Images Using an Autoencoder Model	
48	Sidra Anwar	Enhancing Security For Low-Powered Medical Wearable Devices Through Optimized Lightweight Encryption	