



The 30th Annual Newfoundland Electrical and Computer Engineering Conference

November 18, 2021

Holiday Inn St. John's Conference Centre
St. John's, Newfoundland and Labrador

Time

Time	REGISTRATION			
8:30 AM	REGISTRATION			
9:00 AM	KEYNOTE SPEAKER			
	Signal Processing and Computer Visison Salon A/B/C/D (90 person limit*) Session Chair: TBA	Remote Sensing I Salon F (48 person limit) Session Chair: Weimin Huang	Ocean Engineering Salon CBN (15 person limit) Session Chair: TBA	Security and Privacy CBS (15 person limit) Session Chair: Jonathan Anderson
10:00 AM	Xin Qiao (5)	Hangyu Lyu (1)	Xueheng Tao (47)	Javad Kamyabi (24)
10:20 AM	Raylene M Mitchell (12)	Zhiding Yang (2)	Justin Blackwood (49)	Akefar Islam (38)
10:40 AM	COFFEE BREAK			
	Signal Processing and Computer Visison Salon A/B (90 person limit) Session Chair: TBA	Remote Sensing II Salon F (48 person limit) Session Chair: Weimin Huang	Controls, Instrumentation, Robotics I Salon CBN (15 person limit) Session Chair: TBA	Power I CBS (15 person limit) Session Chair: Robert Cove
11:00 AM	Nicholas Wells (15)	Michael Royle (14)	Rasool Kahani (4)	Amirhossein Jahanfar (3)
11:20 AM	Narmada M Balasooriya (35)	Joe Craig (28)	Mahmoud Naguib elsayed (27)	Japhet C Ozogbuda (7)
11:40 AM	Bennett SM Newhook (44)	Seyedehsepideh Hashemi (33)	Mahmoud A. K. Gomaa (31)	Luqman AHSAN (8)
12:00 PM		Jin Li (13)	Abdelrahman Khalil (48)	Stephen Ogbikaya (9)
12:20 PM	LUNCHEON SPEAKER			
	Signal Processing and Computer Visison Salon A/B (90 person limit) Session Chair: Dennis Peters	Communications and Networks Salon F (48 person limit) Session Chair: Mohsin Jamil	Controls, Instrumentation, Robotics II CBN (15 person limit) Session Chair: Oscar De Silva	Power II CBS (15 person limit) Session Chair: Robert Cove
2:00 PM	Ali Ebrahimi (21)	Elham Karimi (11)	Syed Ali Nasir Zaidi (34)	Ali Husnain (10)
2:20 PM	Kusal Tennakoon (36)	Yuhui Song (41)	Didula T Dissanayaka (45)	Mohsin Jamil (40)
2:40 PM	Chengsi Zhang (22)		Luqman AHSAN (17)	Ahmad O Musameh (29)
3:00 PM	COFFEE BREAK			
	Data Science and Machine learning Salon A/B (90 person limit) Session Chair: Dennis Peters	Signal Processing and Computer Visison Salon F (48 person limit) Session Chair: Mohsin Jamil	Circuits and systems CBN (15 person limit) Session Chair: Oscar De Silva	Power III CBS (15 person limit) Session Chair: Robert Cove
3:20 PM	Omid Tarkhaneh (18)	Zizui CHEN (25)	Ravindu G Thalagala (20)	Syed Ali Nasir Zaidi (32)
3:40 PM	Marziyeh Zare (23)	Yaomin Xue (19)	Dominic Jeyamanoharan (6)	Susmita Debnath (39)
4:00 PM	Shahbad Alam (42)		Andrew Peddle (16)	
4:20 PM	CLOSING REMARKS AND AWARD PRESENTATION IN SALON A/B (100 person limit)			

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

90 person limit indicates the maximum capacity, this will be accommodated using 30 socially distant tables with 3 persons of the same social bubble expected to seat at each table. Same applies to other rooms

The 30th Annual Newfoundland Electrical and Computer Engineering Conference (NECEC)

November 18, 2020
at Holiday Inn St. John's, NL
180 Portugal Cove Rd
St. John's, NL

Presentation ID	Presenter	Presentation Title
1	Hangyu Lyu	Eastern Arctic Sea Ice Detection Using RADARSAT Constellation Mission Data: A Case Study Over Davis Strait
2	Zhiding Yang	Application of Temporal Convolutional Network for Wave Height Estimation from X-band Radar Images
3	Amirhossein Jahanfar	Design and dynamic simulation of a wind turbine powered electric vehicle charging system
4	Rasool Kahani	Designing a Model Reference Adaptive Controller for a DC – DC Boost Converter
5	Xin Qiao	Recognition of algae using digital holograms based on MobileNet
6	Dominic Jeyamanoharan	Modelling the Switch Voltage and Current of a Class-E Inverter Using Design of Experiment
7	Japhet C Ozogbuda	Dynamic Simulation of an Off Grid Photovoltaic System with backup battery and generator for a Remote house in Nigeria
8	Luqman AHSAN	Design of Hybrid Electrical Power System for an Industrial Unit in Pakistan
9	Stephen Ogbikaya	Design of a hybrid power system using Homer Pro and iHOGA
10	Ali Husnain	Design and Dynamic Modeling of a Solar EV Charging System for St. John's, Canada.
11	Elham Karimi	An Intelligent Resource Allocation and Scheduling in Vehicular Edge Computing
12	Raylene M Mitchell	Automated Recognition of Content in Next-Generation 911 Images and Videos
13	Jin Li	Calligraphy Denoising: Comparison of the Self2Self and GAN Machine Learning Methods
14	Michael Royle	Analysis of the Electric Field Equations for Propagation and Scatter over Rough Mixed Paths with a Simple Discontinuity
15	Nicholas Wells	Towards Immersive Cinematic Video for Immersive Displays
16	Andrew Peddle	Design of Class-EF Inverters using Multi-Objective Genetic Optimization
17	Luqman AHSAN	Analysis and Modeling of Differential Protection of Power Transformer in Simulink
18	Omid Tarkhaneh	Golden Tortoise Beetle Optimizer: A Novel Nature-Inspired Meta-heuristic Algorithm for Engineering Problems
19	Yaomin Xue	A Mutual Guide Framework for Hyperspectral Image Classification with Small Training Dataset
20	Ravindu G Thalagala	Development of a Time of Flight Sensor Deck for Relative Positioning of Micro Aerial Vehicles
21	Ali Ebrahimi	Bounding Surface Removal in Complex 3D Indoor Environments Using Orientation-Based MSAC
22	Chengsi Zhang	Optical flow based perspective independent point cloud registration
23	Marziyeh Zare	Gene Expression Programming (GEP) Model to Predict Induction Time for Hydrate Formation in the Presence of Commercial Hydrate Kinetic Inhibitor (Luvicap 55 W)
24	Javad Kamyabi	A Malware Identification technique based on eBPF
25	Zizui CHEN	Foreground-aware classification with depth images
27	Mahmoud Naguib elsayed	MPC-based Trajectory Control for Quadrotor Micro Aerial Vehicle
28	Joe Craig	Characterisation of an inertial oscillation by high frequency surface wave radar
29	Ahmad O Musameh	Olive oil residue and coffee ground mixture heating content study
31	Mahmoud A. K. Gomaa	Computationally Efficient Multiple-NMPC for Quadrotor Micro Aerial Vehicles
32	Syed Ali Nasir Zaidi	Design and Analysis of a Small Scale Micro-grid for a Rural Settlement in Pakistan
33	Seyedehsepideh Hashemi	Platform motion parameter estimation from synthetic HF radar data
34	Syed Ali Nasir Zaidi	MONITORING AND CONTROLLING OF MULTIPLE INVERTERS THROUGH SCADA
35	Narmada M Balasooriya	Comparison of Deep Learning based Semantic Point Cloud Segmentation models for LiDAR Odometry and Mapping
36	Kusal Tennakoon	Evaluation of Conventional vs CNN-based Place Recognition Methods for Visual Loop Closure in GPS Denied Navigation
38	Akefar Islam	Approaches to securing the message authentication and integrity of the marine automatic identification system
39	Susmita Debnath	Developing a Uni-directional charging infrastructure (Vehicle to Grid operation) for a self - solar-powered Electric vehicle in the microgrid.
40	Mohsin Jamil	AC-AC Matrix Converters: State of The Art Review
41	Yuhui Song	CP Decomposition based Sparse Bayesian Learning with Application to Channel Estimation
42	Shahbad Alam	Architectural Design of a Convolutional Neural Network
44	Bennett SM Newhook	Testing of Deep Learning-Based Object Detection & Tracking Systems for Federally Legislated Aerial Obstacles
45	Didula T Dissanayaka	Numerical study of GPS aided visual lidar odometry and mapping (VLOAM) for safety regulatory compliance
47	Xueheng Tao	AUV-Aided Underwater Localization by DOA and Doppler Shift
48	Abdelrahman Khalil	Connected Autonomous Vehicle Platoon Modeling using Bond Graph Approach
49	Justin Blackwood	A novel method for improving accuracy of acoustic measured signals for extracting oceanographic parameters