

The 15th IEEE International Conference on Green Energy & Smart Systems (IEEE GESS 2024), November 4 ~ 5, 2024, Long Beach, California

Symposium and Workshop Program: <https://site.ieee.org/clas-sysc/program>



□ Symposium (Nov. 4, Hilton Long Beach) – Session A

Time	Program
9:00 AM	Welcome: General Chair
9:05 AM	Keynote presentation-1: Activating Interdependencies and Systemic Orders in Sustainable Energy and Enterprise Systems; James H. Lambert (IEEE Fellow, University of Virginia - Janet Scott Hamilton and John Downman Hamilton Professor)
10:00 AM	Mingling & Networking
10:20 AM	Federated Learning-based Resilient Control of Shipboard Power System; Anway Bose (Temple University, USA), Joseph Amato (Naval Surface Warfare Center, USA), Li Bai (Temple University, USA)
10:40 AM	Fault Classification in Aircraft Electrical Systems Using Transients and FPGA-Based Deep Learning; Ian C Guzman, Radu F. Babiceanu (Embry-Riddle Aeronautical University, USA)
11:00 AM	Implementation of Hardware in Loop Control in Evaluating Non Road Mobile Machines Powertrain; Markus Rumjanstev, Rasmus Pettinen, Tino Tuominen and Christer Soderstrom; Sahas Bikram Shah (VTT - Technical Research Centre of Finland, Finland)
11:20 AM	Voltage-Sag Origin Detection in Smart Grids for Enhanced Resiliency; Ahmed Mustafa, Mohammed E. Nassar, M. M. A. Salama (University of Waterloo, Canada)
11:40 AM	MATLAB-Based Lightweight Workload Prediction via Machine Learning Models in Distributed Systems; Ghadeer Al Jufout and Simon Zhang (California State University Long Beach, USA); Hailu Xu (California State University, USA); Saleh Al Jufout (California State University, Long Beach, USA)
12:00 PM	Lunch & Student Poster Presentations
1:00 PM	Keynote presentation-2: Autonomous Control of Bio-Inspired Extreme Behaviors in Robotics; Nak-seung Patrick Hyun (Purdue University - Assistant Professor, IEEE GESS 2024 - TPC Chair, Harvard University - Research Associate, Georgia Institute of Technology – PhD)
1:50 PM	Keynote presentation-3: California: Still Innovating After All These Years; Cody Taylor (California Energy Commission – Manager of the Industry & Carbon Management Branch in R&D Division)
2:40 AM	Mingling & Networking
3:00 PM	Medium Voltage Three-Phase Interleaved Three-Level Bidirectional DC-DC Battery Energy Storage Converter for Wind Turbine; Yunjun Ling (UC Berkeley, USA); Changyuan Zhang (WindSun Science Technology, China); Xuguang Li (Shanghai Jiaotong University, China)
3:20 PM	Dynamic Signal Timing Optimization for Left-Turn Maneuvers via V2I and V2V Communication; Pedro Herrera, Avi Jagdish and Tairan Liu (California State University, Long Beach, USA)
3:40 PM	A Real-Time Traffic Monitoring System based on YOLOv8 for Vehicle Detection and Classification; Jimwell Castillo, Xunfei Jiang, et al. (California State University, Northridge, USA)
4:00 PM	Impact of Reward Function Selection on DQN-Based Traffic Signal Control; Avi Jagdish and Tairan Liu (California State University, Long Beach, USA)
4:20 PM	An Efficient Framework to Enhance Single-Charge Performance of Lithium-Ion Batteries; Christopher Sayers and Ehsan Naderi (Arkansas State University, USA)
4:50 PM	Award Ceremony: Best Paper Awards, Service Awards, Poster Competition Awards



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□ Symposium (Nov. 4, Hilton Long Beach) – Session B

Time	Program
9:00 AM	Welcome: General Chair
9:05 AM	Keynote presentation-1: Activating Interdependencies and Systemic Orders in Sustainable Energy and Enterprise Systems; James H. Lambert (IEEE Fellow, University of Virginia - Janet Scott Hamilton and John Downman Hamilton Professor)
10:00 AM	Mingling & Networking
10:20 AM	Optimization of Net-Zero Energy Solutions in Saudi University Campuses; Basil Bin Kasim, Mohammed Alogeil and Walied Alfraidi (Imam Mohammad Ibn Saud Islamic University, Saudi Arabia)
10:40 AM	Optimal Dynamic Operation of Electrolyzers Considering Power Demand of Peripheral Devices; Martin J. Winter, Gernot Schullerus, Antony Dominic and Thorsten Zenner (Reutlingen University, Germany)
11:00 AM	Community-Based Resilience of Distribution Systems Against Extreme Weather: A Time-Sharing Framework; Bo Tu, Kenneth McDonald, Zhihua Qu, Marwan A. Simaan, Kristopher Davis and Kelly Stevens (University of Central Florida, USA)
11:20 AM	Forecasting Hot Water Consumption Demand for Residential Dwellings Using Hybrid Classical Regression; Ibrahim Ali Kachalla and Christian Ghiaus (CETHIL UMR 5008, INSA Lyon, France)
11:40 AM	Investigating the Impact of Electric Vehicle Charging Loads on CSUN's Electric Grid; Mohammad R. Narimani; Daniel G. Aguilar, Logan Dehay, Jahn Aquino, Erik Jensen, Juan Rodriguez, Silvia Carpitella, kourosh sedghisigarchi and Xudong Jia (California State University Northridge, USA)
12:00 PM	Lunch & Student Poster Presentations
1:00 PM	Keynote presentation-2: Autonomous Control of Bio-Inspired Extreme Behaviors in Robotics; Nak-seung Patrick Hyun (Purdue University - Assistant Professor, IEEE GESS 2024 - TPC Chair, Harvard University - Research Associate, Georgia Institute of Technology – PhD)
1:50 PM	Keynote presentation-3: California: Still Innovating After All These Years; Cody Taylor (California Energy Commission – Manager of the Industry & Carbon Management Branch in R&D Division)
2:40 AM	Mingling & Networking
3:00 PM	A Comparative Study on Partial Discharge and Dielectric Strength of MMEI Flat Samples under AC and DC Condition at Atmospheric Pressure; Saikat Chowdhury, Anoy Saha, Md A. Rahman and Mona Ghassemi (University of Texas - Dallas, USA)
3:20 PM	Solar-Powered EV Charging Station with Battery Energy Storage System Integration; Afshin Balal, Tom Reid and Rob Stewart (Entrust Solutions Group, USA)
3:40 PM	Evaluating Dibenzyltoluene as a Dielectric Liquid for Encapsulation in High Voltage, High Power Density (U)WBG Power Electronics Modules; Pujan Adhikari, Easir Arafat and Mona Ghassemi (University of Texas - Dallas, USA)
4:00 PM	Automated Charging of Battery Electric Vehicles on Trains to Accelerate the Mobility Revolution; Armin Buchroithner, Christof Birgel, et al. (Graz University of Technology, SSC Railtec GmbH, RCC Railway Competence and Certification GmbH, Easelink GmbH, Austria)
4:50 PM	Award Ceremony: Best Paper Awards, Service Awards, Poster Competition Awards



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- Workshop (Nov. 5, Niggli Conference Center (ECS-312) at California State University Long Beach)
- EV Demo Truck at Parking Space of the back of ECS building 9:00 am – 3:00pm

Time	Program
9:00 AM	<p>Building a Zero-Emission Vehicle Ecosystem; Moderator: Dr. Tyler Reeb (College of Professional and Continuing Education, CSULB – Executive Director) Panelists: Bill Beverly (Evolectric - Co-Founder / Co-CEO), Jacquelyn Birdsall (Toyota – Senior Engineering Manager), John Keisler (Sunstone Management – CEO), Cory Shumaker (Hyzon Motors - Head of Business Development), Marc Deutsch (American Honda Motor Company - Manager) https://csulb.zoom.us/j/7923303746?omn=82748373650</p>
10:40 AM	Break and EV Demo
11:00 AM	<p>Mobile DC Fast Charging of EVs from Scratch - All the Pieces; James Burns, (Transpower - Founder) https://csulb.zoom.us/j/7923303746?omn=81015178204</p>
12:00 PM	Casual Lunch - Mingling and Networking
1:00 PM	<p>Introduction to Hydrogen Mobility; Edward Youn (Clear Skies – Principal Engineer) https://csulb.zoom.us/j/7923303746?omn=86183515336</p>
1:45 PM	<p>Using Real-Time Machine Monitoring to Realize Process-Level Energy Optimization; Zakary Smith (SensFlo – Co-Founder / CEO) https://csulb.zoom.us/j/7923303746?omn=83877708900</p>
2:30 PM	<p>Current state of AI Research and Application; Yingqi Xiong (Microsoft – Senior Applied Scientist) https://csulb.zoom.us/j/7923303746?omn=84733327207</p>
3:15 PM	<p>Enhancing Electric Vehicle Reliability through Predictive Maintenance Using Advanced Data Analytics; Yu-Wei Chung (Ford – Research Engineer) https://csulb.zoom.us/j/7923303746?omn=85851483243</p>
4:00 PM	<p>GenAI Cloud Infrastructure; Samir Katte (Microsoft – Senior Software Engineer) https://csulb.zoom.us/j/7923303746?omn=84494167998</p>
4:45 PM	Mingling and Networking
5:10 PM	Finishing Workshop