INTELLIGENT SOLUTIONS FOR SUSTAINABLE ENERGY AND TECHNOLOGY

GECOST

Curtin University Malaysia

IEEE PES Power & Energy Society®
MALAYSIA CHAPTER

GECOST 2025

International Conference on Green Energy, Computing and Sustainable Technology

12-14 NOV 2025 | MIRI MALAYSIA
VIRTUAL CONFERENCE

IMPORTANT DATES

Full Paper Submission	▶	**29 July 2025** ~~29 June 2025~~
Full Paper Acceptance	▶	31 August 2025
Early Bird Registration	▶	14 Sept 2025
Close Registration	▶	28 Sept 2025

SCAN TO SUBMIT

https://edas.info/N33217

HRD Corp Claimable (10001549197)

Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

CATEGORY	EARLY BIRD*		NORMAL*	
	USD	MYR	USD	MYR
IEEE Member	200	850	250	1100
IEEE Student Member	160	700	210	900
Non IEEE Member	280	1200	330	1400
Student Non IEEE Member	200	850	250	1000
Additional Paper	110	450	140	600
Observer	-	-	35	140

🌐 https://curtin.edu.my/event/gecost/

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TRACK 1: GREEN COMPUTING & SECURITY

Topics: High Performance Cloud Computing; Computing for Sustainability; IoT, CPS, CPSS; Data mining Algorithm; Data and Information Quality Control; Computer Vision; Distributed Computing; Software Engineering; Bioinformatics; Semantics Web; Cryptography; Digital Forensics; Mobile Security; Cloud Security; Energy Constrained Network Devices; Algorithms and Game Theory.

TRACK 2: GREEN COMMUNICATIONS, NETWORKS, & SIGNAL PROCESSING

Topics: Energy Efficient Physical Layer; Power Harvesting; 5G networks; MIMO Systems; Cognitive Radio and Cognitive Networks; Signal Processing for Communications; Communication Architecture; Delay Tolerant Networks; Fault Tolerance, Reliability and Survivability; Flow and Congestion Control; Multi-media and Real-Time Networking; Optical Networks and Systems Protocols and Standards; Satellite and Space Communications; Sensor/Embedded Networks and Pervasive; Personal Area Networks; Social Network Behaviors; Modeling, And Analysis; Vehicular, Underground and Underwater Networks; Software Defined Networking, Smart Grid Communications, Power-line Communications, Antenna and Wave Propagation.

TRACK 3: INTELLIGENT EMBEDDED SYSTEMS & ANALYTICS

Topics: Artificial Intelligence, Machine Learning, Deep Learning; Agricultural Informatics and Communication; Big Data Analytics; Bio-inspired Optimization; Community Information Systems; Remote Sensing; GIS and GPS; Disaster Management; E-Systems; Informatics Hybrid Evolutionary Algorithms; Hybrid Intelligent Systems; Neural Networks; Neuro-Fuzzy Models and Applications; Neuro Informatics Open Source: Challenges and Opportunities; Smart grid and Renewable Energy; Low Power Electronics; VLSI Systems; Nano Electronics; FPGA Development; System on Chip; Embedded Applications; Embedded Memory Architecture; System Automation.

TRACK 4: SENSORS, GREEN MATERIALS, ALTERNATIVE ENERGY, & CONTROL PROCESS

Topics: Capacitive Sensors, Ultrasonic Sensors, Temperature Sensors, IR Sensors; Sensors in Process Control; Nanotechnology; Nanomaterials; Photonic; Nanosensors; Biosensors; Green Technologies; Green Materials; Biogas Energy Process; Solid Waste Energy; Green Sensors.

TRACK 5: GREEN ENERGY, POWER SYSTEM, & SMART GRID

Topics: Power Generation; Transmission and Distribution; Power System Monitoring; Control and Protection; Energy: Renewable Energy Sources, Grid integration of renewables, system integration of renewables, power system operation and control, Power Electronics; Energy Forecasting, Load Forecasting; Microgrids, smart grids and distributed generation: Architecture, sizing, topologies and control methods, distributed generation; Energy storage: methods, modelling, design and simulation; Electric Vehicles: Charging (slow, medium, boost), Battery Management System, Hybrid Vehicles, Grid Integration of Electric Vehicles.

TRACK 6: DIGITAL APPLICATIONS IN INDUSTRY, GOVERNMENT AND HIGHER EDUCATION

Topics: Big Data Analysis on Decision Making; Telecommunication Management; Industrial applications involving data analytic and computation; Data Science; AI in Governance; Policy Making; Power and Energy Management; Testing and System Trial; Prototyping validation; Green Communication Management; Technology-Enhanced Learning and Teaching.

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