

Friday 18th July 2025
Dr. Sayed Masabi

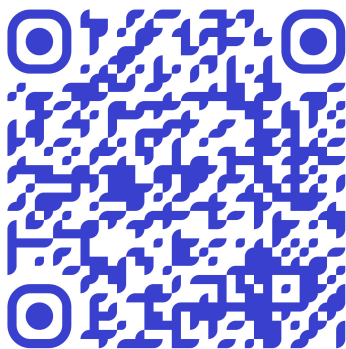
FREE ENTRY

Venue

ENERGUS

**Blackwood Rd Lillyhall
Workington
Cumberland
CA14 4JW**

QR Code for registration:



theiet.org/communities

#ForThoseWhoDoMore

Lancs and Cumbria Local Network

Power-Autonomous Wireless Sensors for a Carbon-Free Future

Self-powered sensing is redefining how we monitor critical infrastructure — offering a smarter, safer, and more sustainable path to a carbon-free future. This seminar introduces power-autonomous wireless sensor networks that operate without batteries or wiring by harvesting ambient energy from airflow and mechanical motion. Deployed in challenging environments like offshore wind turbines, gas pipelines, and advanced vehicles, these systems enable continuous, real-time health monitoring.

This free talk will explore innovations in energy harvesting, ultra-low-power electronics, and embedded machine learning. Aligned with net-zero goals, this interdisciplinary approach lays the foundation for major research opportunities.



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