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Abstract: The proceedings contain 23 papers. The topics discussed include: potential energy flexibility for a hot-water based heating system in smart buildings via economic model predictive control; machine learning based occupancy detection via the use of smart meters; quality assessment of compact fluorescent lamps (CFLs) for energy efficiency; added palm methyl ester + diesel and bioethanol mixtures and engine tune-maintenance of a research on the determination of the effect on engine performance; energy consumption in healthcare buildings in Spain; compatible Hepp selection algorithm for SHE (solar-hydroelectric) systems in turkey; rooftop photovoltaic power plant and electrochemical storage: trend and perspectives for residential buildings; degradation of the energy transfer effectiveness described in terms of currents' physical components (CPC)-based power theory; reliable multi-objective on-line re-optimisation control of a fed-batch fermentation process using bootstrap aggregated neural networks; neuro-fuzzy intelligent control algorithm for cable-driven robots with elastic cables; multi-step delayed input and state estimation: a system augmentation approach; 5G for robotics: ultra-low latency control of distributed robotic systems; fuzzy-enhanced dual-loop control strategy for precise nanopositioning; and operational safety analysis and controller design of a dual drones system.

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