Special Issue

Carbon Emissions Analysis by AI Techniques

Message from the Guest Editors

Amid growing global concern over CO_2 emissions and climate change, innovative solutions are urgently needed. Artificial intelligence (AI) offers transformative potential in this realm, marking a pivotal shift in applied energy research. This Special Issue explores the intersection of AI and carbon emissions efficiency, featuring cutting-edge research and methodologies aimed at a sustainable, low-carbon future. Despite rapid progress, key research gaps remain in applying AI, machine learning, and related technologies to carbon emissions evaluation and forecasting. This Issue invites contributions leveraging techniques such as data mining, time series analytics, IoT, sensor networks, and advanced computing to enhance interpretability, accuracy, and efficiency in energy modeling and emissions forecasting. Topics include AI-driven energy saving, emissions prediction, smart energy management, clean energy use, and urban development. We welcome high-quality, data-driven research advancing sustainability through actionable insights and optimization.

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