

Special Issue

Pioneering Predictive Analytics: AI-IoT Synergies for Adaptive and Sustainable Distribution Models in E-Commerce Supply Chains

Message from the Guest Editors

With the advancement of IoT and the latest AI models, a sustainable supply chain can be achieved by adopting predictive analysis for integrating environment, social, and financial aspects. This Special Issue explores the use of IoT sensors and AI models to monitor carbon footprints, optimize energy use, and support green logistics of various distribution channels. The Special Issue aims to enable carbon neutrality and alleviate climate change. Through in-depth studies, it helps to examine the latest research in minimizing adverse environmental impacts and consider the holistic integration of supply chain operations so as to achieve profitable and efficient business. We welcome original research and practical applications related to (but not limited to) the following areas:

- Real-Time carbon footprint prediction using edge-computing IoT and AI models;
- AI-driven demand forecasting for adaptive omnichannel distribution in volatile markets;
- Generative AI for scenario-based predictive distribution and climate-adaptive demand forecasting;
- IoT-enabled smart sensors in real-time optimization of green distribution networks with urban micro-fulfillment

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Since its establishment, the *Journal of Theoretical and Applied Electronic Commerce Research (JTAER)* has been committed to publishing highquality, peer-reviewed scholarship that advances knowledge regarding electronic commerce in an increasingly complex and interconnected world. *JTAER* aims to create more innovative, responsible, and inclusive forms of electronic commerce by offering an open access international forum for both theoretical and applied research on the impact of digital technologies and business practices on markets and commerce. To achieve this mission, *JTAER* uses a rigorous peer-review process, adheres to strong ethical standards, and supports innovation and informed decision-making in the global digital economy.

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