PSCS92

TRACK AND TRACE SUPPLY CHAIN

Effective Tracking and Tracing in RFID-enabled Supply Chain Networks

Authors:

- **Ge Fu**
- **Shijun Shen**
- **Li Zhao**
- **Qian Liu**
- **Wenda Li**

The paper "Effective Tracking and Tracing in RFID-enabled Supply Chain Networks" focuses on enhancing supply chain visibility through RFID technology and the EPCGlobal standard. It introduces new algorithms for tracking and tracing products that handle complex events like aggregation, disaggregation, recalls, and re-marking, which are often overlooked by existing methods. These algorithms improve the efficiency of managing product information across the supply chain. The experiments show that the proposed methods are scalable, with linear complexity, making them suitable for real-world supply chain networks. The paper emphasizes the role of EPC Information and Discovery Services in ensuring accurate and real-time tracking.

- **12-10-24**