A Novel Intelligent Context-aware Decision Support System for Real-time Monitoring of Container Terminal Operations

By

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All interested are welcome
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Abstract

We present the design and development of an intelligent context-aware decision support system (ICADSS) prototype for the real-time monitoring of container terminal operations. The intelligent context-aware decision support system employs ZigBee-based ubiquitous sensor network (USN) technology. In this study, an ICADSS system was built and implemented in a real world setting. The results of the system prototype evaluation are satisfactory and support the contention that it is more effective in supporting the real-time tracking and tracing of container trucks, quay cranes, etc., in a container terminal. We hope that the proposed system architecture and developed prototype system can help both practitioners and academics in the further research of intelligent context-aware decision support systems.