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Maritime Logistics and Applications of Information Technologies

Kap Hwan Kim

Institute of Logistics Innovation and Networking
Pusan National University
Email: kapkim@pusan.ac.kr

Bong Hee Hong

Institute of Logistics Information Technology
Pusan National University
Email: bhhong@pusan.ac.kr

Abstract

Due to the globalization, international logistics becomes to rely more on the maritime transportation than ever before. This presentation discusses various research issues in field of maritime logistics, which need to be solved by researchers of industrial engineering. The issues include port logistics, container transportation, and maritime transportation systems. Various research topics on the optimization of maritime logistics are introduced in more detail, including topics on the design and operation container terminals and container transportation systems. It is also discussed how information technologies can contribute to making maritime logistics more efficient. Applications of hardware and devices for real-time locating systems and automated handling equipment to maritime logistics are illustrated.

Biography

Kap Hwan Kim

Kap Hwan Kim is working at the Department of Industrial Engineering of Pusan National University. He has studies at Seoul National University (Bachelor, 1977) and Korea Advanced Institute of Science and Technology (Master, 1979; Ph.D., 1987). He was a visiting scholar at Purdue University (1990-1991), Montreal University (2002-2003), Shanghai Maritime University (2009-2010). He is the director of the Institute of Logistics Innovation and Networking in Pusan National University. His research has been focused on the design and operation problems of container terminals and published many papers related to the design and operation of container terminals at international journals such as Transportation Research B, European journal of Operational Research, Journal of the Operational Research Society, OR Spectrum, and so on. He is also working as a member of the editorial board of such international journals as OR Spectrum, Flexible Services and Manufacturing Journal, Operations and Supply Chain Management, and Industrial Engineering and Management Science.

**Bong Hee Hong**

Bong Hee Hong is working at the Department of Computer Science & Engineering of Pusan National University. He has studies at Seoul National University (Bachelor, 1982; Master, 1984; Ph.D., 1988). He worked as an Assistant Professor (1989~1993), Associate Professor (1993~1998) and Full Professor (1998~now) at Pusan National University. And also he is a Director of Institute of Logistics Information Technology (2004~now). His research has been focused on the Middleware technology, RFID database, Spatial Database, Stream data processing, Continuous Query processing, Query optimization techniques, and other related areas. Current Projects are High Performance Middleware Supporting Diverse Logistics Devices, R&D Safety Transportation Technique of Container Freight, Mobile U-GIS Information Store / Manage Technology Development and Next Generation Terminal Operating System (TOS) Architecture Development.