

Call for Papers

Information Systems and Big Data in Maritime Logistics and Seaports
Special Issue: Information Technology and Management (IT&M)

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We invite high quality papers on the interface of information systems, computational logistics, and decision analytics. Information and communication technology (ICT) and information systems have become indispensable for achieving competitive advantages in maritime logistic systems and seaports and for finding innovative solutions to stem environmental problems. The increasing production of data makes logistics processes more visible, but also requires methods to analyse and utilize Big Data in order to improve planning and operations. Against this background, a discussion of promising solution concepts and best practice applications seems necessary more than ever. Of particular interest are high quality papers on innovative tools for supporting planning, port operations and decision making in seaport and maritime logistic systems and real-world cases providing practical experiences and insights.

Topics of the special issue include but are not limited to papers addressing the following with a special focus on maritime shipping and logistics:

- Real-time decision support tools for maritime logistics
- Adoption and utilization of cloud computing, big data and big data analytics
- Innovative and scalable system architectures and system integration
- Collaborative planning and planning tools
- Approaches to promote data sharing in seaports
- National Single Window (NSW) approaches, inter-organizational systems, and port community systems
- Innovative handling technologies for seaside, landside, and terminal operations
- Application of auto-identification, sensor-based technologies, mobile technologies and smartphones
- Data analysis for improving seaside, landside, and terminal operations (e.g., based on automatic identification system data)
- Multi-agent systems and distributed control
- Innovative intra- and inter terminal automation and security solutions
- Modern methods (incl. metaheuristics and matheuristics) applied in big data analytics for maritime logistics
- Communication standards and legal aspects

“Information Technology and Management” is indexed in Social Science Citation Index, Journal Citation Reports/Social Sciences Edition, SCOPUS, etc.

Deadline for submission: October 15, 2015.

Manuscripts should be submitted via the journal’s website and follow the instruction for authors using the **SI:Management & Technology for MaritimePorts** option:

<http://www.springer.com/journal/10799> <http://www.editorialmanager.com/item/>