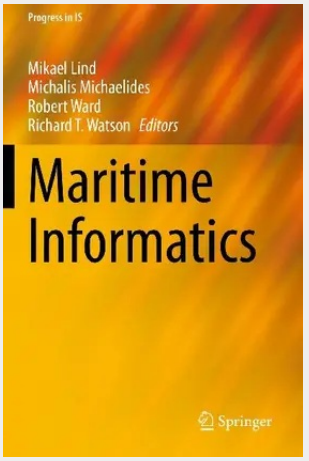
Lind / Michaelides / Ward

Maritime Informatics



This first book on Maritime Informatics describes the potential for Maritime Informatics to enhance the shipping industry. It examines how decision making in the industry can be improved by digital technology, and introduces the technology required to make Maritime Informatics a distinct and valuable discipline. Based on participating in EU funded research over the last six years to improve the shipping industry, the editors stipulate that there is a need for the new discipline of Maritime Informatics, which studies the application of information systems to increasing the efficiency, safety, and ecological sustainability of the world's shipping industry. This book examines competition and collaboration between shipping companies, and also companies who serve shipping needs, such as ports and terminals. Practical examples from leading experts give the reader real world examples for better understanding.

Section 1: Maritime Informatics as a better glue.- The Origins of Maritime Informatics.- Shipping: A Self-Organising Ecosystem.- The Necessity of Standards for Maritime Informatics in Ship Operations.- The Port as a set of Socio-Technical Systems.- Digitalisation in maritime regional and global supply chains.- Sustainable Maritime Transport and Maritime Informatics.- Connecting cities and ports via Maritime Informatics.- Maritime Informatics for increased collaboration.- The future of shipping - collaboration through digital data sharing.- Section 2: Maritime Informatics and Decision Making.- Digital Data Sharing for Enhanced Decision Making.- Decision Support for Port Visits.- Decision Support for Voyaging.- A Smart Grid in Container Terminals.- Decision Support in Short Sea Shipping.- Maritime Informatics for Recreational and Fishing Vessels.- Support for financial decision making.- Green supply chain management and environmental control and regulation.- Global Data Exchange Standards: The Basis for Future Smart Container Digital Services.- Section 3: Maritime Informatics Technology.- Big Maritime Data Management.- Spatiotemporal Data Analytics for the Maritime Industry.- Data Visualisation Tools for Enhanced Situational Awareness in Maritime Operations.- Intelligent Maritime Information Acquisition and Representation for Decision Support.- AIS Data Analytics for Intelligent Maritime Surveillance Systems.

171,19 €
159,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030508944
Medium: Buch
ISBN: 978-3-030-50894-4
Verlag: Springer
Erscheinungstermin: 15.11.2021
Sprache(n): Englisch
Auflage: 1. Auflage 2021
Serie: Progress in IS
Produktform: Kartoniert
Gewicht: 674 g
Seiten: 421
Format (B x H): 155 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)