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Availability and integrity model of Automatic Identification System (AIS) Information

By Krzysztof Jaskólski

GRIN Verlag GmbH Aug 2014, 2014. Taschenbuch. Book Condition: Neu. 211x149x8 mm. Neuware - Doctoral Thesis / Dissertation from the year 2014 in the subject Nautical Science, , course: -, language: English, abstract: Automatic Identification System (AIS) is a data exchange system which was introduced to improve shipping safety and the possibility of exchanging data, at a country and international level, about ships heading to or from ports, as well as exchanging data relating to passengers and dangerous or environment-polluting cargo carried by ships. The main purpose of introducing AIS was to offer a wider spectrum of available, continuous and reliable navigational data. Apart from being useful for traffic control in a marine area, AIS data can be a very important source of information used in collision avoidance process. However, some reservations are voiced with regard to the unconditional reliance on the data transferred through this channel. The information integrity problem had been raised already at the stage of system implementation and some fragmentary outcomes were published in the past. However, it can be assumed that the results from the system introduction period may not represent reality. Thus, it seems reasonable to base the assessment on theoretical analysis, through the...



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