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Prioritizing Major Iranian Sothern Ports Infrastructure Attributes Using Grey Relational Analysis Model

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Abstract

This study was conducted to survey the status of major southern ports of Iran (Khorramshahr, Abadan, Imam Khomeini, Boshehr, Shahid Rajaee, Shahid Bahonar, and Shahid Kalantari ports) regarding the infrastructure for knowledge management implementation. It was constructed into two phases. In the first phase, analyzing the abtained data from the research questioner and using One Sample T Test, the status of studied ports regarding the required infrastructure for knowledge management implementation (information technology, organizational culture, organizational structure, human resources and management change) was investigated, and the research hypotheses were tested. The obtained results from the first phase indicated that the surveyed ports are not well arranged for the required infrastructure for knowledge management implementation. In second phase, by using grey relational analysis each port is ranked based on those five criteria. Finally, according to grey relational coefficient for surveyed ports, among them, Shahid Rajaee has obtained the highest score and consequently Imam Khomeini, Khorramshahr, Boshehr, Shahid Kalantari, Shahid Bahonar and Abadan ports were ranked subsequently.

Keywords: *Prioritizing, Infrastructure Attributes, Shannon Entropy, Ports, Grey relational analysis.*