

Optimization of Maritime Platform Transport Problem of Solid, Special and Dangerous Waste

Authors : Ocotlán Díaz-Parra, Jorge A. Ruiz-Vanoye, Alejandro Fuentes-Penna, Beatriz Bernabe-Loranca, Patricia Ambrocio-Cruz, José J. Hernández-Flores

Abstract : The Maritime Platform Transport Problem of Solid, Special and Dangerous Waste consist of to minimize the monetary value of carry different types of waste from one location to another location using ships. We offer a novel mathematical, the characterization of the problem and the use CPLEX to find the optimal values to solve the Solid, Special and Hazardous Waste Transportation Problem of offshore platforms instances of Mexican state-owned petroleum company (PEMEX). The set of instances used are WTPLib real instances and the tool CPLEX solver to solve the MPTPSSDW problem.

Keywords : oil platform, transport problem, waste, solid waste

Conference Title : ICMSCS 2016 : International Conference on Mathematical, Statistical and Computational Sciences

Conference Location : Madrid, Spain

Conference Dates : March 24-25, 2016