

Research Title : The continuous shipping under flood condition by using the robustness approach
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ABSTRACT

This research is quantitative and qualitative research. The main objectives are studying the flood condition that affect to the industries and finding the robust vehicle routing under flood condition. The research tools are the questionnaires and the developing algorithm. The questionnaires are distributed to the target group such as the factories in the Thailand estates area. The feedback data of 300 factories are showing the effects of flood crisis in year 2011. This crisis also impact to the factories that far away from the disaster areas. The routes are damaged by flood that the major threat of shipping and delivery. This research proposes to the multi-modal transport by using the meta-heuristic algorithms to finding the robust solutions. This developing algorithm can be applied to the VRPTW benchmarking problem of Solomon except problem R1 C1 and RC1.

Keywords : Continuous management, Meta-heuristic algorithm, Vehicle routing problem under flood condition, Robustness approach