

Название публикации:

An artificial intelligence-based system for rapid response to crisis situations

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Наименование журнала:

Oil Pollution: Issues, Impacts and Outcomes

6 November 2018, Pages 73-115

Аннотация:

In the event of an oil leak, an essential element of effective response to any adverse consequences is proper planning for definition of necessary tasks, personnel, and resources. Automated plan should include coordination with appropriate local, municipal, territorial, regional and federal departments, must include ground and air transportation, logistics support, spill reagent supply and delivery of repair equipment. Automated planning task is based on the concepts and principles of Artificial Intelligence (AI) - it has become more popular in terms of urgency due to a dramatic rise in oil leak events. The idea of automated planning is not new - it is based on 50 years of research in the field, including logic of predicates, situational calculus approach, appliance of dynamic and integer programming models. Arisen problem is highly important in terms of urgency - for the petroleum and gas sectors of the Russian economy, as the number of oil leaks has been increased to 28 thousand per year. © 2018 Nova Science Publishers, Inc. All rights reserved.

Ключевые слова:

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