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System Modelling of Rocker-Bogie Mechanism for Disaster Relief (Conference Paper)

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Abstract

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In December 2014, the east coast of Malaysia faced a massive flood from heavy downpour, leading to huge flood damage and caused irreparable loss to life and property. The flood carries the debris, soil and trees along their path, damaging the road and building structure, leaving the road become uneven. This situation gives difficulty to task force bearing AIDS during the post disaster management. This paper proposed an intelligent inclined motion control of an amphibious vehicle while moving on uneven terrain surface.

Author keywords

amphibious damage flood inclined motion

Indexed keywords

Engineering controlled terms: Amphibious vehicles Disaster prevention Disasters Floods Intelligent control Roads and streets Robotics Smart sensors

Compendex keywords amphibious Building structure damage Disaster relief inclined motion Post-disaster management Rocker bogie mechanism System modelling

Engineering main heading: Bogies (railroad rolling stock)

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