LITERATURE REVIEW

* + **Development of Autonomous Radiation Mapping Robot**

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Mapping of gamma radiation autonomously using robot as agents will help to prevent harm to human especially when radiation related disaster occur. Hence, we intend to develop a gamma radiation mapping system that reads and process location data of a mobile robot with encoder as well as the radiation data transmitted by the Geiger Muller sensor on the mobile robot. A grid based algorithm was develop to build the radiation map. The system was then tested under several conditions. The results of the spatial distribution map with respect to respective waypoints were discussed at the end of this paper.

* + **A Robot for Real Time Detection of Nuclear Radiation Levels**

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The radiation is measured by detecting the levels of Alpha (a), Beta (B), and Gamma () in the air.Testing and evaluation experiments that are carried out exhibit the capability of the proposed system to detect radiation leaking, alarm harmful levels and ensure the realization of some behavioral properties like utility and robustness against such operational Obstacles as natural barriers and weather conditions

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