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Preliminary Results of the Autonomous Radiation Mapping in Malaysian Nuclear Agency

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ABSTRACT

Autonomous radiation mapping refers to the use of autonomous robots to perform radiation mapping to measure and analyze the levels of radiation intensity of a target area. The primary purpose of the radiation mapping is to uncover the dose distribution across the target area and identify the presence of any hotspots. In this paper, the findings of the autonomous radiation mapping experiments at selected sites in Malaysian Nuclear Agency were presented. The experiments were conducted with radiation mapping robot developed in the previous project. The results consisting of radiation maps of the target areas will be presented and discussed.

Keywords: radiation mapping, mobile robot, ionizing radiation