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| **Author(s) Name:** | Md. Musfequr Rahman, Md Absar Siddiqui, Md Jarif Rahman Erad, Taseen Rahman, Nadman Ahmed Chowdhury, and Muhibul Haque Bhuyan | | |
| **Contact Email(s):** | muhibulhb@aiub.edu | | |
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| **Abstract:** |  |
| Abstract—The use of complex and mobile robots is growing exponentially in numerous contexts, largely for dangerous zones such as military operations, industries, or emergencies. In this paper, we designed and developed an Arduino-based robot vehicle for gas and landmine detection to make things easy in places, such as military zones or disaster sites. This robot can navigate dangerous terrains independently by monitoring the real-time data of air gas and landmine alarms through gas sensors and metal detectors. Moreover, its ultra-sonic sensor function allows the robot vehicle to move ahead very conveniently. The system uses a GSM module to alert us of possible threats through SMS and calls. This innovative solution provides a practical and effective approach to the reverse logistics of each product. | |