REVIEWER'S REPORT

Manuscript No.: 50748

Date: 23-03-2025

Title:
Integrated Drone for Effective Disaster Management

Recommendation:

Accept … **Yes**

Accept after minor revision … …

Do not accept (*Reasons below*) …

Rating	Excel.	Good	Fair	Poor
Originality			**YES**	
Techn. Quality				**YES**
Clarity		**YES**		
Significance		**YES**		

Reviewer Name: Gulnawaz Gani

Reviewer's Comment for Publication

The article contributes by developing an integrated drone-IoT-AI system for real-time, multi-hazard disaster detection and alerting, enhancing emergency response efficiency.

Detailed Reviewer's Report

- The paper presents a commendable integration of drones, IoT, and AI for real-time disaster monitoring, particularly highlighting its potential in remote or inaccessible areas.
- The use of YOLO and CNN for object detection is appropriate and well-aligned with modern detection needs. However, the implementation details are relatively high-level, lacking rigorous performance metrics or quantitative validation.
- The methodology appears sound but could benefit from comparative benchmarking against existing systems.
- The system's reliance on low-cost hardware is a strength, promoting accessibility, though potential limitations of such hardware in harsh environments are not discussed.
- The inclusion of seismic sensing adds a valuable multimodal layer, yet real-world deployment scenarios are minimally explored.
- Overall, the work is promising and innovative but would be significantly strengthened with deeper experimental evaluation and scalability analysis.

Decision:
Accept