**Hazardous Area Monitoring for Industrial Plant**

**Powered by IoT**

**Literature Survey – 1**

***Done By: Kaushik Balaji. M.S***

**Name:** Application of TerraSAR-X Data for Emergent Oil-Spill Monitoring

**Authors:** Duk-jin Kim, Member, IEEE, Wooil M. Moon, Fellow, IEEE, and Youn-Soo Kim

**Ref. Link:** <https://ieeexplore.ieee.org/document/5357426>

**Published In:** IEEE Conference

**Year:** 2009

**Summary:**

This is all about monitoring the oil spilling in the environment by the component named Synthetic aperture radar(SAR).This works in all atmospheric condition and gives rise to the detection of the oil spill. Under all atmospheric temperature , the sensor gives the desired outcome. The damping ratio estimated from the TerraSAR-X data as function of brag wavenumber of various wind speed indicate that TerraSAR-X can be effectively used to find the oil spill.

**Merits:**

1. Oil that are widely used in industries are detected in case of leakage.
2. Message has been successfully sent to the owner in case of emergency.

**De Merits:**

1. SAR way of transferring can be a problem in bad weathers.
2. In case of emergency respective safety authorities must also be intimated.