**Literature Survey**

| Paper | Method | Limitations |
| --- | --- | --- |
| Guo, Ke & Yang, Pan & Guo, Danhuai & Liu, Yi. (2019). Gas Leakage Monitoring with Mobile Wireless Sensor Networks. Procedia Computer Science | Uses mobile wireless networks for detection and alerting | Relies on wireless connection |
| V. Suma, R. R. Shekar and K. A. Akshay, "Gas Leakage Detection Based on IOT," *2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA)*, 2019 | Detects gas leakage automatically and was shown to be very sensitive | Expensive setup |
| S. Unnikrishnan, M. Razil, J. Benny, S. Varghese and C. V. Hari, "LPG monitoring and leakage detection system," *2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, 2017 | Uses microcontroller based alert system to alert the user | Works only for LPG gas |
| R. K. Kodali, R. N. V. Greeshma, K. P. Nimmanapalli and Y. K. Y. Borra, "IOT Based Industrial Plant Safety Gas Leakage Detection System," *2018 4th International Conference on Computing Communication and Automation (ICCCA)*, 2018 | Used in industrial plants to detect LPG, Methane and Benzene | Cannot be used for household applications |
| V. Suma, R. R. Shekar and K. A. Akshay, "Gas Leakage Detection Based on IOT," *2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA)*, 2019 | Performs automated cylinder booking and gas leakage detection | Low accuracy in detection |

**References:**

1. <https://ieeexplore.ieee.org/>
2. https://www.researchgate.net/
3. Guo, Ke & Yang, Pan & Guo, Danhuai & Liu, Yi. (2019). Gas Leakage Monitoring with Mobile Wireless Sensor Networks. Procedia Computer Science
4. V. Suma, R. R. Shekar and K. A. Akshay, "Gas Leakage Detection Based on IOT," *2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA)*, 2019, pp. 1312-1315, doi: 10.1109/ICECA.2019.8822055
5. S. Unnikrishnan, M. Razil, J. Benny, S. Varghese and C. V. Hari, "LPG monitoring and leakage detection system," *2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, 2017, pp. 1990-1993, doi: 10.1109/WiSPNET.2017.8300109.
6. R. K. Kodali, R. N. V. Greeshma, K. P. Nimmanapalli and Y. K. Y. Borra, "IOT Based Industrial Plant Safety Gas Leakage Detection System," *2018 4th International Conference on Computing Communication and Automation (ICCCA)*, 2018, pp. 1-5, doi: 10.1109/CCAA.2018.8777463.
7. V. Suma, R. R. Shekar and K. A. Akshay, "Gas Leakage Detection Based on IOT," *2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA)*, 2019, pp. 1312-1315, doi: 10.1109/ICECA.2019.8822055.