

## Research Publications of Dr. J Sathish Kumar

### • International Journal

1. J Sathish Kumar, Saurabh K Pandey, Meghavi Choksi and Mukesh A Zaveri, "Collaborative data acquisition and processing for post disaster management and surveillance related tasks using UAV-based IoT cloud", *International Journal of Ad Hoc and Ubiquitous Computing*, (SCIE), vol. 34, no. 4, pp. 216-232, 2020.
2. J. Sathish Kumar and Mukesh A. Zaveri, "Resource Scheduling for Post Disaster Management in IoT Environment" , *Wireless Communications and Mobile Computing (SCIE), Hindawi and Wiley Publications*, vol. 2019 pp. 1-19, 2019. doi.https://doi.org/10.1155/2019/7802843
3. J. Sathish Kumar and Mukesh A. Zaveri, "Clustering Approaches for Pragmatic Two-Layer IoT Architecture," *Wireless Communications and Mobile Computing (SCI), Hindawi and Wiley Publications*, vol. 2018(Article ID 8739203), pp. 1-17, 2018. doi:10.1155/2018/8739203.
4. Saurabh K Pandey , Mukesh A Zaveri, Meghavi Choksi and J Sathish Kumar, "UAV-based Localization for Layered Framework of the IoT", *Procedia Computer Science (SCOPUS), Elsevier*, Vol 143, 2018, pp:728-735, September 2018, Cochin, India.(Also published in proceedings of 8th International Conference On Advances In Computing & Communications (ICACC'18), Science Direct).
5. J. Sathish Kumar, and Mukesh A. Zaveri. " Task based Resource Scheduling in IoT Environment for Disaster Management", *Procedia Computer Science (SCOPUS), Elsevier*, Vol 115, pp. 846-852, August 2017, Cochin, India. (Also published in proceedings of 7th International Conference On Advances In Computing & Communications (ICACC'17), Science Direct).
6. J. Sathish Kumar and Mukesh A. Zaveri, "Hierarchical Clustering for Dynamic and Heterogeneous Internet of Things," *Procedia Computer Science (SCOPUS), Elsevier*, Vol 93, pp-276–282, September 2016, Cochin, India. (Also published in proceedings of 6th International Conference On Advances In Computing & Communications (ICACC'16), Science Direct).
7. J. Sathish Kumar, and Dhiren R Patel. " A Survey on Internet of Things: Security and Privacy Issues." *International Journal of Computer Applications*, vol 90, No 11, March 2014, pp: 20-26.

### • International Conference

1. Samta Gaur, J. Sathish Kumar and Shailendra Shukla, "A Comparative Assessment of CNN-Sigmoid and CNN-SVM model for Forest Fire Detection", in Proceedings of IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, pp. 1-6, 2024.
2. Gojja Sree Mourya, Abhinav Jami, Abhinav Ajith, Ayan Habib Seikh and J. Sathish Kumar, "Multi-Trajectory Drone Surveillance: Amplifying Monitoring Capabilities in Disaster Management", in Proceedings of IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCECS 2024), MANIT BHOPAL, pp. 1-6, 2024.
3. Rishi Garg, Ritik Srivastava, Vishakha Rathore, Sanjay Kumar Gautam, Amit Gupta, Prasannam Kumar Saha and J Sathish Kumar, "Utilization of UAVs to Detect and Locate Safe Sites in Disaster Affected Area Using Geo-Referencing", in Proceedings of IEEE Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), VIT Vellore, pp. 1-8, 2024.
4. Satish Kumar and J Sathish Kumar, "Blockchain based Enhanced Healthcare Framework for Secure Interoperability", in Proceedings of Third International Conference on Power, Control and Computing Technologies (ICPC2T), NIT Raipur, pp. 1-6, 2024.
5. Yatharth Dhingra, Siddhant Gangwar, Yagyesh Ranjan Shukla, Ravi Sharma, and J Sathish Kumar, "Electronic Patient Records Management using Federated Blockchain", in Proceedings of 7th International Conference on Communication, Devices and Networking (ICCDN 2024), Springer, SMIT Sikkim, pp. 1-12, 2024.
6. Samta Gaur and J. Sathish Kumar, "UAV based human detection for search and rescue operations in flood", in Proceedings of 10th IEEE UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2024), pp. 1-6, 2024.

7. Abhijeet Pandey, Bhavi Khator, Dhruvi Agrawal, Danish Halim, and J Sathish Kumar, "Segregation of Solid Municipal Waste Using Machine Learning", in Proceedings of IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2023), MANIT BHOPAL, pp. 1-6, 2023, doi: 10.1109/SCEECS57921.2023.10063126.
8. Rishi Garg, Ritik Srivastava, Vishakha Rathore, Sanjay Kumar Gautam and J. Sathish Kumar5, "Machine learning based approach to predict cardiovascular diseases", in Proceedings of IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2023), MANIT BHOPAL, pp. 1-6, 2023, doi: 10.1109/SCEECS57921.2023.10063059.
9. Ajendra Saxena, Dileep Kumar, Bhanu Pratap Singh, Bhairu Lal Jatt, and J. Sathish Kumar. "Investigating the Charity Funding System using Blockchain Technology." In the proceedings of IEEE World Conference on Applied Intelligence and Computing (AIC), 2022, pp. 877-882, doi: 10.1109/AIC55036.2022.9848986.
10. Jayesh Kumar, Suneeta Agarwal, J Sathish Kumar, "YOLO Based Model for Garbage Detection", in Proceedings of IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2022), MANIT BHOPAL, Feb 2022, pp. 1-5, doi: 10.1109/SCEECS54111.2022.9740921.
11. Kundan Nayak, Keval Kushwaha, Kapil Kumar and J Sathish Kumar, "Android based advanced bus reservation system in the pandemic of Covid-19", in Proceedings of IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2022), MANIT BHOPAL, Feb 2022, pp. 1-6, doi: 10.1109/SCEECS54111.2022.9740872..
12. J Sathish Kumar, Mukesh A Zaveri, Saurabh Kumar, and MeghaviChoksi, " Geo-fencing Technique in Unmanned Aerial Vehicles for Post Disaster Management in the Internet of Things ", in Proceedings of IEEE Second International Conference on Advanced Computational and Communication Paradigms (ICACCP-2019), Sikkim, 2019, pp. 1-6, doi: 10.1109/ICACCP.2019.8882934.
13. MeghaviChoksi, Mukesh A Zaveri, J Sathish Kumar and Saurabh K Pandey " Cloud-based Real Time Data Acquisition in IoT Environment for Post Disaster Management", in proceedings of IEEE 9th International Conference On Computing, Communication And Networking Technologies (ICCCNT), July, 2018, IISc Bangalore, India, pp 1-6.
14. Hiteswari Gamit, J Sathish Kumar and Mukesh A Zaveri, "Resource monitoring and scheduling for post disaster management using Internet of Things", in *Proceedings of IEEE 3rd International Conference for Convergence in Technology*, 2018, Pune, India. pp 1-5.
15. J Sathish Kumar, Mukesh A.Zaveri, "Graph based Resource Allocation for Disaster Management in IoT Environment", in *Proceedings of Second International Conference on Advanced Wireless Information, Data, and Communication Technologies*, ACM, November 2017, Paris, France, pp 1-6.
16. J. Sathish Kumar and Mukesh A. Zaveri, "Graph based clustering for two-tier architecture in Internet of things," in the *Proceedings of 9<sup>th</sup> IEEE International Conference on Internet of Things (iThings) and IEEE Green Computing and Communications (GreenCom) and IEEE Cyber, Physical and Social Computing (CPSCom) and IEEE Smart Data (SmartData)*, December 2016, pp-229–233.
17. J. Sathish Kumar and Mukesh A. Zaveri, "Clustering for collaborative processing in IoT network," in the *Proceedings of ACM International Conference on Urban IoT*, May 2016, pp-95–97.
18. Mukesh. A Zaveri, Saurabh K Pandey and J Sathish Kumar "Collaborative Service Oriented Smart Grid using the Internet of Things," in the *Proceedings of IEEE International Conference on Communication and Signal Processing (ICCSP'16)*, March, 2016, pp-1412–1418.
19. J. Sathish Kumar and Dhiren R. Patel. "Enhanced location privacy algorithm for wireless sensor network in internet of things." In Proceedings of International Conference on Internet of Things and Applications (IOTA), IEEE, pp. 208-212, 2016.

- **Book/Book Chapter**

1. J Sathish Kumar, Mukesh A Zaveri, Saurabh Kumar, and MeghaviChoksi, " Situation Aware Conditional Sensing in Disaster Prone Areas using Unmanned Aerial Vehicles in IoT Environment ", in proceedings of International Conference on Data Communication and Network, "Advances in Intelligent Systems and Computing", **Springer**, Vol. 847, pp: 135-146, January 2019, Galgotias University, New Delhi.
2. J. Sathish Kumar, and Mukesh A. Zaveri. " Activity based Resource Allocation in IoT for Disaster Management" in *Future Internet Technologies and Trends. ICFITT, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering*, **Springer**, vol 220.,pp 215-224, January 2018, Surat, India.