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.

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- 1. Sanand M V and J Sathish Kumar, "Enhancing Privacy in Healthcare System Using Blockchain and Zero-Knowledge Proofs", in Proceedings of 3rd International Conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS), BITS and NFSU Goa, pp:1-12, 2024. (Accepted and Yet to present and publish).
- 2. Prakarsh Srivastava and J. Sathish Kumar, "Scale Aware Dynamic Crowd Monitoring in Disaster Management", in Proceedings of 8th Students Conference on Engineering and System, IEEE, MNNIT Allahabad, pp:1-6, 2024.
- 3. Satish Kumar and J Sathish Kumar, "Federated Blockchain Based Highly-Available Healthcare System to Protect the Privacy and Security of Users", in Proceedings of 15th International IEEE Conference on Computing, Communication and Networking Technologies, IIT Mandi, pp. 1-6, 2024.
- 4. Nupur Goyal and J Sathish Kumar, "Flood Prediction and Warning System Using Machine Learning Algorithms", in the Proceedings of 1st International Conference on "Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM 2024), NIT Silchar, pp. 1-10, 2024.
- 5. Yatharth Dhingra, Siddhant Gangwar, Yagyesh Ranjan Shukla, Ravi Sharma and J Sathish Kumar, "Surviror Detection in Flood Situations Using YOLO Algorithm" in the Proceedings of 1st International Conference on "Natural Disaster: Risk Analysis, Management and Mitigation (NDRAMM 2024), NIT Silchar, pp. 1-12, 2024.
- 6. 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.
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- Dhingra, Yatharth, Siddhant Gangwar, Yagyesh Ranjan Shukla, Ravi Sharma, and J. Sathish Kumar.
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- 11. 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.
- 12. 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.
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- 22. 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.
- 23. J. Sathish Kumar and Mukesh A. Zaveri, "Graph based clustering for two-tier architecture in Internet of things," in the Proceedings of 9th 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.
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- 1. Kumar, J. Sathish, and M. V. Sanand. "Applications of Blockchain in Healthcare: State-of-the-Art Survey." Blockchain-Enabled Internet of Things Applications in Healthcare: Current Practices and Future Directions, Bentham Science Publishers, pp:148-169, 2025, doi:10.2174/97898153052101250101.
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