



Dr. Thejaswini M

Assistant Professor

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Education and Experience

I received the Ph.D. degree in computer science and engineering at the **Indian Institute of Technology Hyderabad**, Hyderabad, India in 2016.

Worked as postdoctoral research fellow for one year at the Department of Computer Science, **SUNY Korea**, Korea.

Currently I am working as assistant professor at **Indian Institute of Information Technology (IIIT Bhagalpur)**, in the Department of Computer Science and Engineering.

Research Areas

My main research field is Networks and Communication,
My research areas are:

- Wireless Networks, Mobile Communications, Pervasive Computing, Cloud Computing,
- Mobiles Sensor Networks
- Artificial Intelligence and Machine Learning
- Big Data Analysis
- Internet of Things, Vehicle Sensor Networks
- Mobile Applications for Smart Cities
- UAVs
- Future Networks (5G)
- Network Security and Blockchain Technology

Teaching Courses

- Data Communications
- Computer Networks
- Advanced Database Management Systems
- Network Security
- Cryptography
- Blockchain Technology
- Mobile Applications Development

Publications

International Journals

1. Thejaswini M, Rajalakshmi P, and U.B. Desai , "Novel Sampling Algorithm for Human Mobility Based Mobile Phone Sensing," IEEE Internet of Things Journal, vol.2, no.3, pp. 210-220, June 2015.
2. Thejaswini M, Rajalakshmi P, and U.B. Desai , "Duration of stay based weighted scheduling framework for mobile phone sensor data collection in opportunistic crowd sensing", Peer-to-Peer Networking and Applications, Springer US, pp. 1-10, July 2015.
3. Thejaswini. M and B. J. Choi, "Weighted Adaptive Opportunistic Scheduling Framework for Smartphone Sensor Data Collection in IoT," KSII Transactions on Internet and Information Systems, vol. 13, no. 12, pp. 5805-5825, 2019.

International Conferences

1. Thejaswini M, P. Rajalakshmi and U. B. Desai, "Levy Walk Based Multi-hop Data Forwarding Protocol For Opportunistic Mobile Phone Sensor Networks", International Conference on Information, Communication and Signal Processing (ICICS), pp. 1-5, Taiwan, 10-13 December 2013.
2. Thejaswini M, P. Rajalakshmi and U. B. Desai, "Novel Sampling Algorithm for Levy-Walk Based Mobile Phone Sensing", IEEE World Forum on Internet of Things, pp. 496-501, Seoul, South Korea, 6-8 March 2014.
3. Thejaswini. M. and B. J. Choi, "Mobility Prediction Based Scheduling for Large Scale Mobile Crowdsourcing Data Collection," 2019 IEEE Globecom Workshops. (GC Wkshps), Waikoloa, HI, USA, 2019, pp. 1-6.
4. Monalisha Sinha, Shalini, and Thejaswini. M, "Convergence of Geo-IoT with Advanced Technologies," 2023 International Conference on Disruptive Technologies (ICDT), Greater Noida, India, 2023, pp. 553-558.
5. Thejaswini. M, Gaurav Kumar, S. K. Aggarwal and P. K. Bagaria, "UAV Images Based Maize Crop Analysis Using Custom CNN Model," 2024 IEEE 16th International Conference on Computational Intelligence and Communication Networks (CICN), Indore, India, 2024, pp. 1018-1023, doi: 10.1109/CICN63059.2024.10847362.
6. Thejaswini. M, S. Trivedi, D. Gupta and P. K. Bagaria, "UAV Based Maize Crop Images Classification as Leaf and Soil Using Color Space and Machine Learning Models," 2025 11th International Conference on Communication and Signal Processing (ICCSP), Melmaruvathur, India, 2025, pp. 229-233, doi: 10.1109/ICCSP64183.2025.11088677.

Sponsored Projects

- **TiHAN - IIT Hyderabad**

PI for project titled: "Automated Maize Disease Detection Using UAV Based Images",

Budget: 17.15 lakhs

Status: Completed

- **DST- NCSCT**

Children Centric Outreach Programme, National Council for Science & Technology Communication (NCSTC), Department of Science & Technology (DST)

PI for project titled: "CyberMitra",

Budget: 4.8 Lakhs

Status: Accepted

M.Tech and PhD Supervision

- 2 M.Tech students (Completed)
- 1 PhD student (Ongoing)

Workshops Conducted

- 20-24 Dec 2021, Co-ordinator for 5 Days Online FDP on "Cybersecurity and Blockchain Technology"
- 13-17 May 2024, Co-ordinator for 5 Days Online FDP on "Applications of UAV in Agriculture".