

**Book-Published:**

- Saha, Suman, and Shailendra Shukla. *Advanced Data Structures: Theory and Applications*. CRC Press, 2019.
- S.Shukla, AK.Singh, G.Srivastava: *Internet of Multimedia Things (IoMT): Techniques and Applications*. Elsevier,2021 (Accepted)

**Journal-Published:**

- Shukla, Shailendra. "Reliable critical nodes detection for Internet of Things (IoT)." *Wireless Networks* 27.4 (2021): 2931-2946.
- Sharma, Prince, Shailendra Shukla, and Amol Vasudeva. "Data offloading via optimal target set selection in opportunistic networks." *Mobile Networks and Applications* (2021): 1-11.
- Sharma, Prince, Shailendra Shukla, and Amol Vasudeva. "Trust-based Opportunistic Network Offloaders for Smart Agriculture." *International Journal of Agricultural and Environmental Information Systems (IJAEIS)* (2020) (accepted)
- Rangra, Abhilasha, Vivek Kumar Sehgal, and Shailendra Shukla. "A Novel Approach of Cloud Based Scheduling Using Deep-Learning Approach in E-Commerce Domain." *International Journal of Information System Modeling and Design (IJISMD)* 10.3 (2019): 59-75.
- Shukla, Shailendra, Rajiv Misra, and Animesh Prasad. "Efficient disjoint boundary detection algorithm for surveillance capable WSNs." *Journal of Parallel and Distributed Computing* 109 (2017): 245-257.
- Shukla, Shailendra, Rajiv Misra, and Abhishek Agarwal. "Virtual coordinate system using dominating set for GPS-free adhoc networks." *Annals of Telecommunications* 72.3-4 (2017): 199-208.
- Shukla, Shailendra, Nishant Kumar, and Rajiv Misra. "Impact of bloom filter on infection rate in epidemic forwarding for ICNs." *Wireless personal communications* 75.4 (2014): 2165-2180.
- Misra, Rajiv, Shailendra Shukla, and Vivek Chandel. "Lightweight localization using trilateration for sensor networks." *International Journal of Wireless Information Networks* 21.2 (2014): 89-100.
- Shukla, Shailendra, and Rajiv Misra. "Angle based double boundary detection in wireless sensor networks." *Journal of networks* 9.3 (2014): 612.

**Conferences:**

- Sharma, P., Shukla, S., Vasudeva, A. (2020, September). Trust-based Incentive for Mobile Offloaders in Opportunistic Networks. In *2020 International Conference on Smart Electronics and Communication (ICOSEC)* (pp. 872-877). IEEE.
- Shukla, Shailendra, Sumeet Singh, Arvind Kumar, and Rakesh Matam. "Defending Against Increased Rank Attack on RPL in Low-Power Wireless Networks." In *2018 Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC)*, pp. 246-251. IEEE, 2018.
- Rangra, Abhilasha, Vivek Kumar Sehgal, and Shailendra Shukla. "Sentiment Analysis of Tweets by Convolution Neural Network with L1 and L2 Regularization." In *International Conference on Advanced Informatics for Computing Research*, pp. 355-365. Springer, Singapore, 2018.
- Sharma, Prince, and Shailendra Shukla. "Optimal Target Set Selection via Opinion Dynamics." In *2018 Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC)*, pp. 806-811. IEEE, 2018.
- Kumar, Arvind, Rakesh Matam, and Shailendra Shukla. "Impact of packet dropping attacks on RPL." In *2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC)*, pp. 694-698. IEEE, 2016.

- Misra, Rajiv, Shailendra Shukla, and Vivek Chandel. "Lightweight Software Model for Target Localization in Wireless Sensor Networks." In 2013 IEEE International Conference on Distributed Computing in Sensor Systems, pp. 301-303. IEEE, 2013.
- Misra, Rajiv, Shailendra Shukla, and B. M. Baveja. "Vehicular communication via compass labeling." In 2011 IEEE Consumer Communications and Networking Conference (CCNC), pp. 472-476. IEEE, 2011.
- Misra, Rajiv, and Shailendra Shukla. "Social network aware routing for delay tolerant networks." In International Conference on Advances in Computing and Communications, pp. 101-110. Springer, Berlin, Heidelberg, 2011.

**Project**

**Research grant from TEQIP-III:** Internet of Things and Localization based Tele-health Service(Amount: 2 Lakhs).

**P.hD.  
Guided**

- Prince Sharma: **Thesis Title:** Data offloading in Vehicular Adhoc Networks.[Co-Guide (Ongoing)]
- Abhilasha Rangra: **Thesis Title:** Applicability of Social networks in disaster management. [Co-Guide (Ongoing)]

**B-Tech/M-Tech  
Guided**

**B-Tech Students:** Guided more than 18 UG Groups.

**Present M-Tech Students:**

- Satyendra Yadav: **Topic:** Malware Analysis in LLN based Mobile IoT Devices. (Ongoing: 2020-2021)
- Rasheka Srivastava: **Topic:** Gesture and Posture Recognition in Patient Monitoring System(Ongoing: 2020-2021)

**Previous M-Tech Students:**

- Gajendra Tayagi: **Thesis Title:** Anchor Free Positioning For Target Tracking in Wireless Sensor Networks.(Completed 2014-2015)
- Deepak Poach: **Thesis Title:** Impact of Social Network Algorithms in Delay Tolerant Networks.(Completed 2014-2015)
- Abhilasha Rangra : **Thesis Title:** Application of Human Opinion Dynamics for message dissemination in Delay Tolerant Networks. (2015-2016)
- Priyanshi Sharma: **Thesis Title:** Security Analysis of RPL protocol. (2016-2017)
- Kritika : **Thesis Title:** Mobile data offloading in opportunistic networks. (2016-2017)

**Present  
Administrative  
Responsibilities**

- Incharge: Departmental website management
- Member: UG project coordinator committee.
- Member: Time table committee
- Member: Content management and online class management committee
- Member: NBA committee (MCA)