

Faculty Profile

Name : Saba Khanum
Designation : Assistant Professor
Qualifications : M.Tech , Ph.D (pursuing)
Phone : 09958712244
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Area of Interest/Specialization: Blockchain, Information Security
Experience : 10 + years



NET Qualified'2019 and GATE Qualified'2018

Key Publications:

1. Khanum, S., & Mustafa, K. A lattice based blind ring signature scheme for sensitive data protection in blockchain applications. *Concurrency and Computation: Practice and Experience*, e7835. **SCI INDEXED**
2. Khanum, S., & Mustafa, K. (2023). A systematic literature review on sensitive data protection in blockchain applications. *Concurrency and Computation: Practice and Experience*, 35(1), e7422. **SCI INDEXED**
3. Paper Published in Parichay: Maharaja Surajmal Institute Journal of Applied Research journal on the topic “Effectiveness and Quantification of Research articles and Research authors through Indexes and Metrics” in 2020, **GOOGLE SCHOLAR INDEXED.**
4. Paper Published in SIGMA-2018 Conference on the topic “Securing Onion routing from correlation attack”. Paper published in Springer Book-Series, **SCOPUS INDEXED**
5. Paper published in conference proceedings INDIACom-2018; IEEE Conference ID: 42835 IEEE Conference ID: 40353 on the topic “Comparative Analysis of EIGRP and OSPF on Congestion Collapse”, **GOOGLE SCHOLAR INDEXED.**

6. Paper published in IEEE International Conference on “Computing for sustainable Global Development” 11th INDICOM-2017 on the topic “Position Based Routing Protocols: Infrastructure less, Infrastructure Based and Hybrid: Survey”.
7. Paper published in IJEECS on the topic “Security Attacks on Vehicular Ad-Hoc Networks and Measures to Secure the Networks Volume 4, Issue 4 (August 2017) | EISSN: 2348-2273, **GOOGLE SCHOLAR INDEXED**.
8. Paper published in International journal of Innovation in Engineering and Technology on the topic “Hybrid Public key Cryptosystem combining RSA and DES algorithm having E- ISSN: 2319-1058, **GOOGLE SCHOLAR INDEXED**.
9. Paper published in International Journal of Current Trends in Engineering & Technology) on the topic Method based survey on Pattern Matching” having ISSN: 2395-3152 Volume:
03, Issue: 05 (September, 2017), **GOOGLE SCHOLAR INDEXED**.
10. Paper Published in World academy of research and science on the topic “Electronic Health Record storage and interoperability: Archetype based solution” in 2016 having ISSN: 0974-5572, **SCOPUS INDEXED**.
11. Published in International Forum Researchers Students and Academician on the topic “QoS Parameter Analysis on AODV and DSDV Protocols for MANETS” in IJMAN vol1 May 2011 having eISSN- 2231:6825.
12. Paper Published and Presented in International Conference on Mathematical and Soft Computing on the Topic “Performance Issues and Challenges in DSDV and AODV Protocol for MANETS” at N. C. College of Engineering, Israna, Panipat on 4-5 December2010.

Papers presented and Published in Conferences:

1. Khanum, S., & Mustafa, K. presented on topic “Bequeathing the blockchain wallet in Public Blockchain to Secure Wallet Sensitive Data” in *International Conference on Intelligent Computing for Sustainable Development in 2023* and got **Best paper Award**.
2. Exposure of Sensitive Data through Blockchain Wallets: A Comparative Analysis. In *International Conference on Innovative Computing and Communications: Proceedings of ICICC 2022, Volume 1* (pp. 161-169).
3. Khanum, S., & Mustafa, K. (2022, September). Exposure of Sensitive Data through Blockchain Wallets: A Comparative Analysis. In *International Conference on Innovative Computing and Communications: Proceedings of ICICC 2022, Volume 1* (pp. 161-169). Singapore: Springer Nature Singapore.
4. Sharma, S., & Khanum, S. (2022). Performance analysis of SHA 2 and SHA 3. *Saba, Performance analysis of SHA, 2*.
5. Khanum, S., Bisht, D., Kashyap, K., & Mehta, M. (2023). Vulnerability Assessment of Cryptocurrency Wallet and Exchange Websites. In *Mobile Radio Communications and 5G Networks: Proceedings of Third MRCN 2022* (pp. 483-492). Singapore: Springer Nature Singapore.
6. Presented “EIGRP and OSPF comparative analysis in N/W boarder patrolling” research paper in international BVICAM conference, 2018 at BVP, Delhi.
7. Presented “Secure onion routing against co-relation attack” paper in SIGMA international conference’2018 at NSIT, Delhi.
8. Presented “Position based routing in vehicular Ad-hoc routing network” paper presented in international conference BVICAM’2017 at BVP, Delhi.
9. Paper presented in UGC Sponsored National Seminar on “Information Technology & Information and Communication Technology-Trends, Issues and Challenges on the topic “QoS Parameter Analysis on AODV and DSDV Protocol for MANETS” on 26-27 March 2011.

Awards and Recognitions

1. Received **Certificate of Appreciation** from MSIT in recognition for outstanding contribution and continued dedication towards the institution in 2014-15.

Patent/Copyright

1. “Decentralized Blockchain based Multi-chain data synchronization for IOT smart manufacturing” published on 21/5/2021.