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Teaching Experience - 15+ years

Areas of Interest :- Mobile Ad hoc Networks (MANETs), Computer Networks, Computer Architecture & Organization, Compiler Design, Microprocessor

Publications

- Shobha Tyagi, Subhranil Som, SK Khatri, "Reliability-based dynamic multicast group formation provisioning local adjustment ensuring quality of service globally in MANETs", **Taylor & Francis series, International Journal of Parallel, Emergent and Distributed Systems**, <https://doi.org/10.1080/17445760.2019.1650040>, 1-15, August 2019.
- Shobha Tyagi, Subhranil Som, Q P Rana, "Fuzzy Logic based Trust Management through Dynamic Multicast Group formation provisioning Quality of Service in MANETs", **Journal of Advanced Research in Dynamical and Control Systems (JARDCS)**, ISSN : 1943-023X, December 2018.
- Shobha Tyagi, Subhranil Som, Q P Rana, "Trust based Multicast Group Routing ensuring reliability for Ubiquitous Environment in MANETs", **International Journal of Ambient Computing and Intelligence (IJACI)**, vol. 8 /Issue 1. ISSN: 1941-6237, March 2017.
- Shobha Tyagi, Subhranil Som, Q P Rana, "A Reliability Based Variant Of AODV In MANETs: Proposal, Analysis And Comparison", **Procedia of Computer Science, Elsevier, Vol. 79**

<https://doi.org/10.1016/j.procs.2016.03.112>, March, 2016.

- Shobha Tyagi, Anupama Sharma, Ajay Vikram Singh, “QoS Based Network layer and MAC Layer in MANETs: Metrics, Issues and Challenges”, **International Journal of Innovative Research and Development**, Vol. 3, Issue 8, 2014.
- Shobha Tyagi, Ravi Prakash, “Blockchain- A pathway to Industry 4.0” selected in March 2021, and to be published soon, under **Elsevier book chapter titled as AI Industry 4.0**.

Conference Publications (07)

- Shobha Tyagi, Subhranil Som, Q P Rana, “A QoS Aware Variant of AODV with Probabilistic Broadcast off Control Packets in MANETs”, **INTERNATIONAL CONFERENCE on Reliability, Infocom Technologies and Optimization (ICRITO 2015)**, ISBN: 978-1-4673-7231-2, December, 2015.
- Shobha Tyagi, Subhranil Som, Q P Rana, “MOM - MANETS (Mutual Adjustment by Neighbors Ensuring Transmissions Smoothly) On MANETs (Mobile Ad hoc Networks)”, **International Conference on Infocom Technologies and Unmanned Systems ICTUS 2017, Dubai**, ISBN: 978-1-5386-0514-1, February, 2018.
- Shobha Tyagi, Subhranil Som, Q P Rana, “ Trust based Fuzzified Multicast Group Preventing Flooding to ensure QoS in Mobile Ad hoc Networks”, **The Fifth International Symposium on Innovation in Information and Communication Technology [ISIICT 2018]**, Philadelphia, Amman, Jordan, November, 2018.
- Adarsh pai, Jeson Pegado, Ajinkya Kamath, Shobha Tyagi, “A Proposed Model for Preventing the Spread of Misinformation on Online Social Media using Machine Learning”, **Amity International Conference on Artificial Intelligence-AICAI'19**, Feb 2019.
- Amuthavalli Yadav, Manasi Choche, Shobha Tyagi, “Internet of things based hazardous gas leakage detection system using Arduino UNO”, **International conference on innovative Computing and communication**, February 2021.
- Shobha Tyagi, Sonika Dhankhar, “Comparison of Image Synthesized through Texture Transfer”, **National Conference on Advances in Knowledge Management, NCAKM 2010At: Lingaya’s University**,

Faridabad, Haryana, India, 2010.

- Shobha Tyagi, Sonika Dhankhar, “Brain MRI Segmentation using K-means Algorithm”, **National Conference on Advances in Knowledge Management, NCAKM 2010At: Lingaya’s University, Faridabad, Haryana, India, 2010.**