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Department of Artificial Intelligence and Machine Learning

Faculty – Wise Publication List

Dr. Sujata V Mallapur

Publications in International/ National Journals

I. International Journals

1. Anand N Patil and Sujata V. Mallapur, Integrated Blockchain Manufacturing Design for Distributed Authentication, Validation and Secure Sharing of Events in VANET, Journal of Machine and Computing, 3(1)(2023), PP. 17-26, 2023.
2. Sunita K and Sujata Mallapur, "Optimal Detection of Border Gateway Protocol Anomalies with Extensive Feature Set", Communicated **International Journal of Expert Systems with Applications**.
3. Sunita K and Sujata Mallapur "Optimal Trained Hybrid Classifier for Border Gateway Protocol Anomaly Detection" Accepted for the Publication in International Journal of Swarm Intelligence Research (IJSIR), (ESCI and Scopus and Compendex Indexed Journal).
4. Arun Tadkal, Sujata Mallapur, Red deer optimization algorithm inspired clustering-based routing protocol for reliable data dissemination in FANETs, "Materials Today: Proceedings", Accepted for publication, Article in press. DOI: <https://doi.org/10.1016/j.matpr.2021.12.527>
5. Kiran Maka and S. Pazhanirajan and Sujata Mallapur, Selection of most significant variables to detect fraud in financial statements, Materials Today: Proceedings", Accepted for publication, Article in press. DOI: <https://doi.org/10.1016/j.matpr.2020.09.613>.
6. Swati S and Sujata Mallapur, "A Brief Review on Area Coverage Maximization in Wireless Sensor Networks", Design Engineering, Issue 8, PP. 11940 – 11952, 2021.
7. Anand N. Patil, Sujata V. Mallapur "A Systematic Review on Security-Based Routing



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Protocols for VANET's", Engineering Journal, Accepted for Publication.

8. Kiran Maka, Dr.S. Pazhanirajan, Dr. Sujata Mallapur. Literature Review: Detection Of Financial Statement Fraud-- Palarch's Journal of Archaeology of Egypt/Egyptology 17(7), 4874-4886. ISSN 1567-214x.
9. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Multi constraints reliable multicast routing protocol for group communications in MANETs ", Springer International Journal of Information Technology, Volume 10, Issue 2, Pages 147 - 163, 2018, **(Published By Springer and Indexed by DBLP, INSPEC & UGC-CARE List , Google Scholar etc.)**, DOI: <https://doi.org/10.1007/s41870-018-0097-0>.
10. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Load Balancing Technique for Congestion Control Multipath Routing Protocol in MANETs ", **Springer Wireless Personal Communications**, Volume 92, Pages 749-770, 2017, **(Published By Springer and Indexed by Scopus, Google Scholar etc.)**, DOI [10.1007/s11277-016-3575-3](https://doi.org/10.1007/s11277-016-3575-3).
11. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed "A Stable Backbone-based on Demand Multipath Routing Protocol for Wireless Mobile Ad Hoc Networks ", International Journal of Computer Network and Information Security, Volume 8, Issue 3, Pages 41-51, March 2016. **(Published By MEMS Publications, Hong Kong and Indexed by Google Scholar, Microsoft Academic Search, CrossRef, Baidu Wenku, Index Copernicus, IET Inspec etc.)** DOI: [10.5815/ijcnis.2016.03.06](https://doi.org/10.5815/ijcnis.2016.03.06).
12. Sujata V. Mallapur and Siddarama R. Patil, "Fuzzy Logic Based Trusted Candidate Selection for Stable Multipath Routing", International Journal of In- formation Technology and Computer Science, Volume 7, Issue 6, Pages 12-21, May 2015. **(Published By MEMS Publications Hong Kong and Indexed by Google Scholar, Microsoft Academic Search, CrossRef, Baidu Wenku, IndexCopernicus, IET Inspec etc.)**, DOI: [10.5815/ijitcs.2015.06.02](https://doi.org/10.5815/ijitcs.2015.06.02)
13. Sujata V. Mallapur and Siddarama R. Patil, "Survey on Simulation Tools for Mobile Ad-Hoc Networks", International journal of Computer Networks and Wireless Communications, Volume 2, Number 2, Pages 241-248, April 2012.



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14. Sujata V. Mallapur, Siddaram R. Patil, "A Novel approach of Simulation tools for mobile Ad Hoc Networks", International journal of computer science and Communication", Vol. 3, No.2, July -Dec 2012, pp. 1-10.
15. Subhashini V Gole, Sujata V Mallapur, "Multipath Energy Efficient Routing Protocol", International Journal of Research and Reviews in Computer Science (IJRRCS) for Vol. 2, No 4, 2011 (August 2011 issue), (**Indexed by DBLP, INSPEC & UGC-CARE List , ProQuest, Google Scholar etc.**).
16. Mrs. Sujata V Mallapur, Sujata Terdal, "Enhanced Ad-Hoc on Demand Multipath Distance Vector Routing Protocol (EAOMDV)", (IJCSIS) International Journal of Computer Science and Information Security, Vol. 7, No. 3, March 2010. (**Indexed by scopus, DBLP, INSPEC & UGC-CARE List , Google Schola.etc**).
17. Sujata V. Mallapur " Predictive Preemptive Ad-Hoc on Demand Multipath Distance Vector Routing Protocol", international journal of Computer Science & Emerging Technologies (IJCSET), Vol. 1, Issue 2, August 2010, pp. 155-159. (**Indexed by Google Scholar, ProQuest etc.**).

II. National/International Conferences

1. Manjula A Biradar and Dr. Sujata Mallapur, "Reliable MANET Routing for Multimedia Communication", in IEEE conference on "International Conference on Advances in Computing, Communication and Applied Informatics", **28th & 29th January 2022** Doi: 978-1-6654-9528-8/22/\$31.00.
2. Sunita K and Sujata Mallapur, "A Brief Analysis of Border Gateway Protocol for Internet Controlling and Malicious Attacks", Springer conference in International Conference on Computing, Communication, Electrical and Biomedical Systems, 25-26 March 2022.
3. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Mobility-Aware Reliable Multicast Routing Protocol for MANETs", in IEEE Region 10 Conference (IEEE TENCON 2018), Pages 0948 - 0953, 28-31 Oct. 2018 .(**Published By IEEE, Indexed by Scopus**). DOI: [10.1109/TENCON.2018.8650239](https://doi.org/10.1109/TENCON.2018.8650239).
4. Sujata V. Mallapur, "Direction-Based Energy Efficient Routing Protocol For WSN", In International Conference on Science, Engineering, Business Studies, Humanities and



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Social Sciences (ICSEBSHS – 2019), August 2019.

5. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Mobility-Aware Reliable Multicast Routing Protocol For Wireless Mobile Ad Hoc Networks", in International Conference on Current Research and Applications in Electrical Science, Pages 95-98, 5-9 October 2016.
6. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Multi Constrained Reliable Multicast Protocol using Network Coding in MANETs", in IEEE 8th international conference on communication systems and networks (COMSNETS 2016), Bangalore, India, Pages 1-6, 5-9 January 2016. **(Published By IEEE, Indexed by Scopus)**. DOI: [10.1109/COMSNETS.2016.7439967](https://doi.org/10.1109/COMSNETS.2016.7439967)
7. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Mobility Aware Recovery Technique for Reliable Multicast Routing Protocol in MANETs", in IEEE WIECON-ECE 2015, Dhaka, Bangladesh, 19-20 December 2015. **(Published By IEEE, Indexed by Scopus)**.
8. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Load Balancing Technique for Congestion Control Multipath Routing in Mobile Ad Hoc Networks ", IEEE TENCON 2015, Macao, China, Pages 1-6, 1-4 November 2015. **(Published By IEEE, Indexed by Scopus)**. DOI: [10.1109/TENCON.2015.7372836](https://doi.org/10.1109/TENCON.2015.7372836).
9. Sujata V. Mallapur, Siddarama R. Patil and Jayashree V. Agarkhed, "Multipath Load Balancing Technique for Congestion Control in Mobile Ad Hoc Networks", In proceedings of IEEE 5th International Conference on Advances in Computing and Communications (ICACC 2015), Cochi, Kerala, India, Pages 204-209, 3-5 September 2015. **(Published By IEEE, Indexed by Scopus)**. DOI: [10.1109/ICACC.2015.97](https://doi.org/10.1109/ICACC.2015.97).
10. Sujata V. Mallapur and Siddarama R. Patil, "Fuzzy Logic-based Stable Multipath Routing Protocol for Mobile Ad Hoc Networks ", Eleventh IEEE India International Conference -(INDICON 2014), Pune, India, Pages 1-6, December 11-13 2014. **(Published By IEEE, Indexed by Scopus)**. DOI: [10.1109/INDICON.2014.7030670](https://doi.org/10.1109/INDICON.2014.7030670).
11. Sujata V. Mallapur and Siddarama R. Patil, "Route Stability Based on Demand Multipath Routing Protocol for Mobile Ad Hoc Networks ", IEEE third International Conference on Communication and Signal Processing, Chennai, India, Pages 1288-1292, April 3-5, 2014. **(Published By IEEE, Indexed by Scopus)**.



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DOI: [10.1109/ICCSP.2014.6950167](https://doi.org/10.1109/ICCSP.2014.6950167).

12. Sujata V. Mallapur and Siddarama R. Patil, "Stable Backbone Based Multipath Routing in Mobile Ad Hoc Networks", IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT 2013), Tamilnadu, India, Pages 1105-1110, 21-23 March 2013. DOI: [10.1109/ICCPCT.2013.6528991](https://doi.org/10.1109/ICCPCT.2013.6528991), (Published By IEEE, Indexed by Scopus).
13. Sujata V. Mallapur, "Enhanced Ad Hoc on Demand Multipath Distance Routing Protocol, in proceedings of the National Conference on Wireless Networks, pp. 39-43, 20-21 August 2011.

III. Patents Publications/Design:

1. Artificial Intelligence-Based Smart Touch Less Medicine Dispensing System for Pharma Field, Application No.202141038793A
2. Synthesis Of E-Waste Based on Machine Learning & Artificial Intelligence Autonomous Management System for Smart Environment, Application No.202141044783A.
3. Secured Health Monitoring System using Cloud Computing, Application No.202241006303A.
4. Multi-objective Optimization Technique for task Scheduling in Cloud Computing Environment, Application No.202311003515.

IV. Book Chapter

1. Sunita Mala, Sujata Mallapur, A Brief Analysis of Border Gateway Protocol for Internet Controlling and Malicious Attacks. International Conference on Computing, Communication, Electrical and Biomedical Systems. EAI/Springer Innovations in Communication and Computing. Springer, Cham. <https://doi.org/10.1007/978-3-030-86165-047>, 2022.
2. Chapter Name: AI in Healthcare, Recent Trends in Computer Science.
3. Chapter Name: AI and IoT-based intelligence heart rate monitoring system, Book Title: AI and IoT-based intelligent Health Care & Sanitation, published by BENTHAM Science, Publisher, 2023.

V. Research Grant/Project Grant



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- Sectioned the Research grant for “Personalized Health Monitoring System using Internet of Things and Machine Learning” under the Research Promotion Scheme by *AICTE Quality Improvement Schemes*.
- IoT Based Night Vision Patrolling Robot for Women Safety, 43rd Series of Student Project Programme: 2019-20, Karnataka State Council for Science And Technology.
- Intelligent Agriculture Monitoring System for Smart Farming Using MachineLearning Technique, 45th series of Student Project Programme (SPP): 2021-22, Karnataka State Council for Science And Technology.



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Dr. Rashmi Patil

Publications in International/ National Journals

1. Rashmi K H, Dr. RekhaPatil, "A Survey on Cross layer Design Approaches in VANETs," in Journal of Emerging Technologies & Innovative Research ,volume7,Issue 2, February 2020. (eISSN: 2349-5162).
2. Rashmi K H, Dr. RekhaPatil, "Survey on Cross Layer Approach for Robust Communication in VANET" in Springer Wireless Personal Communication (Scopus Indexed) volume 119,Issue 4, August 2021. (ISSN: 3413-3434).
3. Rashmi K H, Dr. RekhaPatil, "Cross Layer Based Congestion free Route selection in Vehicular Ad-hoc Networks," International Journal of Computer Networks & Communications Vol.14, No.4, July 2022. (ISSN: 0974-9322: Online &0975-2293:Print).Page no. 81-98.
4. Rashmi K H, Dr. RekhaPatil, "Energy Aware Cross Layer Based Clustering and Congestion Control Using Mexican Axolotl Algorithm in VANET", International Journal of Computer Networks and Applications (IJCNA), 9(6), PP: 701-711, 2022, ISSN: 2395-0455. DOI: 10.22247/ijcna/2022/217703.

Prof. Supriya Bagewadi

Publications in International/ National Journals

1. "Improved Densenet Model for Automatic Categorization of Brain Tumors"2022 IEEE 3rd Global Conference for Advancement in Technology(GCAT) India,0ct2022.
2. "Novel Approach for IOT based with Low Energy Wi-Fi for Smart Museum"e-ISSN:2395-0056.P-ISSN:2395-0072,IRJETjournal,feb2022.
3. "A Novel Method for Evaluation of Automation Dry Fog Disinfecting Unit"e-ISSN:2395-0056.P-ISSN:2395-0072,IRJET journal,Sep2022



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4. **"Automated Identification of Plant Species from Images of Leaves and Flowers used in the Diagnosis of Arthritis"** ISSN:2320-8791.IJREAT,OCT 2013.

Prof. Swati Sugoor

Publications in International/ National Journals

1. **"VENDOR LOCK-IN TO THE META CLOUD FOR CHANGING THE WIND"**
In IJAST-INTERNATIONAL JOURNAL OF Advanced Scientific and Technical
Research journal| issue 4| Volume 5|ISSN:2249-9954|September- October 2014.
2. **"A BRIEF REVIEW ON AREA COVERAGE MAXIMIZATION IN WIRELESS
SENSOR NETWORKS"** in Design Engineering Scopus| Vol 2021: Issue 08|
ISSN:0011-9342|Year 2021|Issue:8|pages:11940-11952

Prof. Ratnakala Patil

Publications in International/ National Journals

1. **"Smart water management using IOT"** ISSN: 2321-9637 IJERT Journal, Volume 7,
Issue 5, may 2019
2. **"Human Brain Identification: A Review"** National Conference in 2022 Sharnbasava
University Kalaburagi



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Dr. Ayesha Heena

Publications in International/ National Journals

- * A. Heena, N. Biradar and N. M. Maroof, "Comparative Analysis of Fractional Order Calculus in Image Processing," 2019 1st International Conference on Advances in Information Technology (ICAIT), 2019, pp. 180-183, doi: 10.1109/ICAIT47043.2019.8987396.
- * Heena, A., Biradar, N., Maroof, N.M. *et al.* Machine learning based biomedical image processing for echocardiographic images. *Multimed Tools Appl* (2022). <https://doi.org/10.1007/s11042-022-13516-5>.
- * Heena, Ayesha & Biradar, Nagashettappa & Maroof, Najmuddin. (2021). Comparative Analysis of Various Medical Image Segmentation Techniques. 10.47531/MANTECH/ECC.2021.32.
- * Heena, A., Biradar, N., Maroof, N.M. (2022). Machine Learning Based Detection and Classification of Heart Abnormalities. In: Chen, J.IZ., Tavares, J.M.R.S., Iliyasu, A.M., Du, KL. (eds) Second International Conference on Image Processing and Capsule Networks. ICIPCN 2021. Lecture Notes in Networks and Systems, vol 300. Springer, Cham. https://doi.org/10.1007/978-3-030-84760-9_2.
- * Ayesha Heena, Nagashettappa Biradar, Najmuddin M Maroof, Vishwanath P, Processing of echocardiographic images using segmentation, feature extraction and classification for detection of heart abnormality, Global Transitions Proceedings, Volume 3, Issue 1, 2022, Pages 13-19, ISSN 2666-285X, <https://doi.org/10.1016/j.gltp.2022.04.003>.
- * Ayesha Heena, et. al. "Neural Network Based Abnormality Classification of Echocardiographic Images." International Journal of Engineering Research and Applications (IJERA), vol.12 (07), 2022, pp 23-31.
- * Ayesha Heena, et. al. "Neural Network based Classification of Echocardiographic



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Images", published in LINO Journal Vol 11, Issue-1-2020-S.NO.27.

- * A. Heena, N. Biradar, N. M. Maroof, S. Bhatia, A. Mashat *et al.*, "Image enhancement using adaptive fractional order filter," *Computer Systems Science and Engineering*, vol. 45, no.2, pp. 1409–1422, 2023.
- * Ayesha Heena, et. al. "Abnormality Classification Using Convolutional Neural Network for Echocardiographic Images" in communication.
- * Published a book chapter in book titled "Biomedical Signal Processing for Health care Applications" first edition, published by CRC PRESS (Taylor and Francis). The chapter 3 titled "Analysis and Classification of Heart Abnormalities". ISBN 9780367705879. DOI <https://doi.org/10.1201/9781003147817>.

Prof. Nirupama

Publications in International/ National Journals

International Journals

1. MobileNet -V2 : An Enhanced Skin Disease Classification by Attention and Multi-Scale
2. Features, 'Journal of Imaging Informatics in Medicine, pp:2948-2925,2024.
3. "Enhancing Skin Disease Segmentation with weighted Ensemble Region-Based Convolutional Network", *Engineering Proceedings*, pp:2673-4591,2023
4. Verifiable Attribute-Based Through Text and Image Search with Fine-Grained Owner-Enforced Search Authorization in the Cloud, *International Journal of Science and Research (IJSR)*, pp:2319-7064,2017

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Centenary Celebrated Sharnbasveshwar Vidya Vardhaka Sangha's

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