

	Dr. Meenu Chawla
Designation	Professor
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Date of Birth	30 – 11 – 1968
Educational Qualification	Ph. D. (CSE), M. Tech. (CSE), B. E. (Computer Technology)
Experience	35 Years Teaching Experience (UG and PG) and Ph. D. Guidance
Specialization	Wireless Networking, Theoretical Computer Science, Artificial Intelligence, Machine Learning
Publication	• International Journals – 44 • National Journal – 2 • National Conference – 3 • International Conference – 39 Total Published Paper <u>88</u>
Member of professional bodies	• CSI • ISTE
Achievements/ Awards	• Merit Certificate under National Scholarship Scheme, Govt. of MP (1985) • Merit Certificate under the Scholarship Scheme, Govt. of India (1986 - 1990)
Number of P.G. Projects guided	• Ph. D. – 6 Completed, 5 in Progress • M. Tech. – 60+ Completed, 8 in Progress
Project/ Consultancy undertaken	• Development of Wireless and sensor network lab, a project funded by MHRD for Rs. 32 Lakh in 2011-2012. (Completed in 2012) • Technology Incubation and Development of Entrepreneurs (TIDE), a project funded by Department of Information Technology Govt. of India. For Rs. 156.56 Lakhs 2011-2013. • Co-investigator for the consultancy of Rs. 4.97 Lakhs for Software testing at BMHRC, Bhopal in 2006

	• Co-investigator for M.P. Rural Livelihood Project for Rs. 19736/_ in 2004-05. • Co-investigator for Directorate of Health Services, Bhopal project for Rs. 50,000/ in Jan 2005. • Taken classes in MPSTEP through ICSC MACT from Dec 2000 to Dec 2001 for MIT course.
Administrative work done	• Senate Member • External Expert in SRPC Committee of Ph. D. Scholars of other departments • Committee Member for selection of Temporary Faculty in MBC Department (July 2024) • Committee Member for selection of Temporary Faculty in MBC Department (June 2025) • Expert to evaluate Projects in Techno-Search • Anti-Ragging Committee Member • Committee Member for scrutiny of applications for the post of Asst. Professor (Grade II) and Asst. Professor (Grade I) in the department of CSE • Expert Member in Presentations for the Post of Asst. Professor (Grade II), Asst. Professor (Grade I), Asso. Professor and Professor in the department of CSE • Departmental Research Program Committee (DRPC) Member • Departmental Quality Assurance and Academic Audit Committee Member • Departmental Class Monitoring Committee Member • Departmental Technical Staff Monitoring and Performance Evaluation Committee Member • Internal Expert in SRPC Committee of Ph. D. Scholars in CSE Department • LAB In-charge (SDN LAB), A Block, II Floor, Department of CSE • Prepared Reports on Academic Audit and Action Plan suggested by Experts of Academic Audit for the department of CSE and centre of AI • Head – Department of Computer Science and Engineering from Aug 2006 to Aug 2008 (2Years). • Head – Department of Computer Science and Engineering from Sept 2017 to Sept 2019 (2Years). • Head – Center of Artificial Intelligence from October 2019 to October 2022 (3 Years). • Nodal Officer of IIIT Bhopal from Sept 2019 to May 2023. • Coordinator of Central Computing Facility from 2019 till date: Development details • Member of Institute Networking Committee. • Joint Secretary for MANIT TIDE 2014-15. • Chairperson of Institute Website Development Team (2007-2008): Web Site launched on 26th January 2007. • Overall In-charge of activity in the Computer Center for AIEEE counseling in 2007. • Nodal Officer for Website for Golden Jubilee 2009-2010.

Any other information	<u>R&D Interaction-</u> - Developed HPC and Data Center Facilities at MANIT, Bhopal under Central Computing Facility (CCF) worth approx. 9 Crores CCF is equipped with HPC Clusters, VMWare Virtualization Clusters and NVIDIA DGX A 100. HPC comprises 400 CPU Cores, 1920 GB RAM and 120 TB SAS-based Storage. Virtualization Clusters allow Students to work with 24 – 36 Cores and 192 – 256 GB Memory at once. DGX A 100 provides GPU Cores with 320 GB GPU Memory, 1 TB System Memory and 15 TB System Storage to handle various loads, ranging from Analytics to Training to Inference. - Developed Center of Artificial Intelligence at MANIT, Bhopal - Developed Research Facilities for Wireless Networking Lab through TEQIP. - Investigator of Project titled " Wireless and Sensor Network Lab" worth 32 Lakhs - Co-coordinator for “Technology incubation and Development of Entrepreneurs (TIDE)” Project by DIT, Govt. of India worth Rs 1.56 Crores.
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Consultancy-

- Co-investigator for Acceptance Testing of HMS at Bhopal Memorial Hospital & Research Center (BMHRC) - Total Amount 4.93 Lac.
- Co-investigator for MP Rural Livelihood Project for Rs 19,736/- in 2004-05.
- Co-investigator for Directorate of Health Services, Bhopal project for Rs 50,000/- in Jan 2005.

Details of Editor / Member of Editorial Board / Reviewer of Journals-

- Program Committee Member for reviewing papers for Proceedings of SCEECs 2012 Students' Conference on Electrical, Electronics and Computer Science, organized by IEEE MANIT Students Branch.
- Member of Technical Review Committee for Proceedings of National Conference on "Recent Advances and Challenges in Internet Technology" held in March 2010.
- Program Committee Member for reviewing papers for Proceedings of CSNT2012 (International Conference on Communication Systems and Network Technology) held from 10/5/2012 to 13/5/2012.
- Program Committee Member for reviewing papers for Proceedings of CICN2012 (International Conference on Computational Intelligence and Communication Networks) held from 3/11/2012 to 15/11/2012.
- Reviewer for Proceedings of Theoretical Computer Science, Elsevier Publications, August 2013
- Reviewer for Proceedings of ICIT 2013 (International conference on Information Technology) held in February 2013.

Programs Organized-

- Member of different Institutional Committees at MANIT, Bhopal.
- Patron at Five Days Online Workshop on "Data Mining and its Applications" at IIIT Bhopal from 7/3/2021 to 11/3/2021.
- Patron at Five Days Online Workshop on "Signal and Image Processing" at IIIT Bhopal from 22/3/2021 to 26/3/2021.
- Patron at Five Days Online Workshop on "Machine Learning and its Significance" at IIIT Bhopal from 5/4/2021 to 9/4/2021.
- Workshop on "Security and Privacy in Digital Era for MANIT Women Faculty and Staff" at MANIT, Bhopal from 22/4/2019 to 23/4/2019.
- Workshop on "Substance Abuse" at MANIT and IIIT, Bhopal from 4/11/2019 to 8/11/2019.
- Organized Webinar on "Internet of Things" on 29/5/2020. The invited speaker was Mr. Sudesh Morey, Founder and Managing Director of DRMZ System Innovations Private Ltd.

- Convener for Webinar on “Gender Bias Stereotyping, Gender Equality and Women’s Rights” organized on 22 June, 2020.
- Coordinator (Joint) for the National Conference on “Recent Trends and Challenges in Internet Technology (RTCIT)” held in March-2010.
- Chairperson for Short Term Course on Information Security organized on 10th -14th Dec 2007 in CSE department, MANIT, Bhopal.
- Chairperson for Short Term Course on Cyber crime and Cyber Policy organized on 17th -19th Dec 2007 in CSE department, MANIT, Bhopal.
- Coordinator for 2 Days EXata Network Emulator Software Workshop organized on 22-23 Feb. 2012.
- Coordinator (Joint) for 2 Days QualNet Training Phase-II organized on 1-2 Feb 2011 at Department of CSE, MANIT, Bhopal.
- Coordinator (Joint) for 2 Days QualNet Training Phase-I organized on 29-30 June 2010 at Department of CSE, MANIT, Bhopal.
- Coordinator (Joint) for 5 Days Lecture Series on ‘Image Processing’ in October 2003 at MANIT, Bhopal for final year students of CSE, IT and Electronics Departments.
- Co-coordinator for 2 Days Workshop on Windows and MS Word for continuing education of Faculty Members of MACT (1997- 1998).

Lectures Delivered-

- UIT, RGPV, Bhopal
- “WhatsApp and Facebook Security” on 22/4/2019 and 23/4/2019 at MANIT, Bhopal
- MPSTEP through ICSC at MACT from December 2000 to December 2001 for MIT Course.
- In-House Computer Training Program at ADOT, Bhopal from December 1997 to March 1998.
- BHEL, Bhopal

Outside Institute Activities-

- Chairman - Ad-hoc Academic Committee (Senate) of BOS – Computer Science and Engineering, IIIT, Bhopal
- Expert Member of Selection Committee for Temporary Faculty Recruitment on 20/01/2019 for IIIT, Bhopal
- Expert Member of State Project Directorate, Govt. of M. P. on 1st May 2019.
- Expert Member for Selection Committee for Temporary Faculty Recruitment on 20/06/2019 for IIIT, Bhopal
- Technical Expert in Technical and Purchase Committee at CRISP, Bhopal for the Special SGSY Project sponsored by MoRD, Govt. of India for setting up livelihood and skill upgradation centres.
- Expert Member of Interview Panels for different organizations like DRDO, M. P. Rajya Sahkari Sangh Maryadit Bhopal, Sagar

	Institute of Science and Technology Bhopal and Subject expert for M. Tech. Admissions Interview Board at RGPV, Bhopal. • Expert Member of Interview Board at Kendriya Vidyalyaya for PGT and Computer Instructor. • Appointed Expert for Computer related purchase at Water Resource Department, Bhopal in May 2008. • AICTE Nominee for Appointments of Lecturers / Readers at Shri Raojibhai Gokalbhai Patel Gujarati Professional Institute at Indore. • Offered Expertise to National Law Institute University for Automation of Library in January 2008. • Deputed as Expert Member for Computer related purchase committee in M. P. State Agro Industries Dev Corp. Ltd in 2003 and attended several meetings. • Deputed as Expert in Computer purchase committee regarding Depot Computerization of MPSRTC in December 2000 and attended a number of meetings. • Member REB (Regional Examination Board) for AMIETE / DIPIETE in December 2002. • Member of different AICTE committees. • Expert Member of Recruitment Committee at RGPV, Bhopal. • Expert for Academic Audit at NIT, Raipur. • Expert Member of Recruitment Committee at AIIMS, Bhopal.
Publications	<u>SCOPUS Indexed Conference Publications</u> 1. M. Srinivas, M. Chawla, N. Tiwari and A. Choudhary (2023), “Block Chain based Solution for Sharing and Maintaining Privacy of Students’ Credentials”, Proceedings of ACT 2023, Volume 2023 – June, Page 2165 – 2175, June 2023. 2. V. Jadhav, N. Tiwari and M. Chawla (2022), “A Review on EEG Data Classification Methods for Brain-Computer Interface”, SPRINGER Lecture Notes in Networks and Systems, Volume 473 (ICICC 2022), Page 747 – 760, September 2022. https://doi.org/10.1007/978-981-19-2821-5_63 3. K. Sharma, M. Chawla and N. Tiwari (2022), “Intrusion Detection System using Machine Learning Approach: A Review”, SPRINGER Lecture Notes in Networks and Systems, Volume 473 (ICICC 2022), Page 727 – 734, September 2022. https://doi.org/10.1007/978-981-19-2821-5_61 4. S. Kapadnis, N. Tiwari and M. Chawla (2022), “Developments in Capsule Network Architecture: A Review”, SPRINGER Smart Innovation, Systems and Technologies (Intelligent Data Engineering and Analytics), Volume 266 (FICTA 2021), Page 81 – 90, February 2022. https://doi.org/10.1007/978-981-16-6624-7_9

5. A. Kumar, N. Tiwari and M. Chawla (2022), “Review of Copy-Move Image Forgery Detection”, CEUR Workshop Proceedings, Volume 3269 (WINS 2022), Number 07, Page 45 – 50, April 2022.

[CEUR-WS.org/vol-3269/PAPER_07.pdf](https://ceur-ws.org/vol-3269/PAPER_07.pdf)

6. D. Agarwal, M. Chawla and N. Tiwari (2021), “Plant Leaf Disease Classification using Deep Learning: A Survey”, IEEE XPLORE (Proceedings of ICIRCA 2021), Page 643 – 650, October 2021.

[10.1109/ICIRCA51532.2021.9544640](https://doi.org/10.1109/ICIRCA51532.2021.9544640)

7. S. Sahu, M. Chawla, N. Khare and B. Singh (Accepted 2021: Published 2023), “Mining Approximate Frequent Sub-Graph with Sampling Techniques”, Materials Today: Proceedings (ELSEVIER), Volume 81, Part 2 (IVCSM 2K20), Page 395 – 402, 2023.

<https://doi.org/10.1016/j.matpr.2021.03.425>

8. G. Hajela, M. Chawla and A. Rasool (2020), “A Clustering based Hot Spot Identification Approach for Crime Prediction”, Procedia Computer Science (ELSEVIER), Volume 167 (ICCIDS 2019), Page 1462 – 1470, April 2020.

<https://doi.org/10.1016/j.procs.2020.03.357>

9. A. S. A. Ukey and M. Chawla (2019), “On Maximizing Blind Rendezvous Probability in Cognitive Radio Ad Hoc Networks”, SPRINGER Lecture Notes on Electrical Engineering (Optical and Wireless Technologies), Volume 546 (OWT 2018), Page 149 – 159, April 2019.

https://doi.org/10.1007/978-981-13-6159-3_17

10. S. Sahu, M. Chawla and N. Khare (2018), “Viable Crop Prediction Scenario in Big Data using a Novel Approach”, SPRINGER Advances in Intelligent Systems and Computing (Emerging Technologies in Data Mining and Information Security), Volume 813 (IEMIS 2018), Page 165 – 177, September 2018.

https://doi.org/10.1007/978-981-13-1498-8_15

11. S. Mishra and M. Chawla (2018), “A Comparative Study of Local Outlier Factor Algorithms for Outliers Detection in Data Streams”, SPRINGER Advances in Intelligent Systems and Computing (Emerging Technologies in Data Mining and Information Security), Volume 813 (IEMIS 2018), Page 347 – 356, September 2018.

https://doi.org/10.1007/978-981-13-1498-8_31

12. S. Dongre and M. Chawla (2018), “Analysis of Feature Selection Techniques for Denial of Service (DoS) Attacks”, IEEE XPLORE (RAIT 2018), Page 1 – 4, June 2018.

[10.1109/RAIT.2018.8389000](https://doi.org/10.1109/RAIT.2018.8389000)

13. A. S. A. Ukey and M. Chawla (2018), “Unique ID based Channel Hopping Rendezvous Algorithm for Cognitive Radio Ad Hoc Networks”, IEEE Xplore (RISE 2017), Page 529 – 536, June 2018.

[10.1109/RISE.2017.8378213](https://doi.org/10.1109/RISE.2017.8378213)

14. J. Jose and M. Chawla (2018), “Extending OSGi Bundle Level Resource Monitoring for Implementation Portability”, IEEE Xplore (RISE 2017), Page 129- 133, June 2018.

[10.1109/RISE.2017.8378139](https://doi.org/10.1109/RISE.2017.8378139)

15. S. Sahu, M. Chawla and N. Khare (2017), “An Efficient Analysis of Crop Yield Prediction using Hadoop Framework based on Random Forest Approach”, IEEE Xplore (ICCCA 2017), Page 53 – 57, December 2017.

[10.1109/CCAA.2017.8229770](https://doi.org/10.1109/CCAA.2017.8229770)

16. A. Jain, A. Namdev and M. Chawla (2016), “Parallel Edge Detection by SOBEL Algorithm using CUDA C”, IEEE Xplore (SCEECS 2016), Page 1 – 6, July 2016.

[10.1109/SCEECS.2016.7509360](https://doi.org/10.1109/SCEECS.2016.7509360)

17. M. Sharma, M. Chawla and J. Gajrani (2016), “A Survey of Android Malware Detection Strategy and Techniques”, SPRINGER Advances in Intelligent Systems and Computing, Volume 409 (ICT4SD 2015)), Page 39 – 51, February 2016.

https://doi.org/10.1007/978-981-10-0135-2_4

18. S. Sharma and M. Chawla (2014), “A Technical Review of Efficient Virtual Machine Migration”, IEEE Xplore (CUBE 2013), Page 20 – 25, January 2014.

[10.1109/CUBE.2013.14](https://doi.org/10.1109/CUBE.2013.14)

19. P. P. Naidu and M. Chawla (2012), “Enhanced Ad Hoc On Demand Distance Vector Local Repair Trial for MANET”, IEEE Xplore (WICT 2011), Page 212 – 216.

[10.1109/WICT.2011.6141246](https://doi.org/10.1109/WICT.2011.6141246)

20. P. P. Naidu and M. Chawla (2012), “Enhanced Ad Hoc On Demand Distance Vector Local Repair Trial for MANET”, SPRINGER Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST), Volume 85 (CCSIT 2012), Page 325 – 334, 2012.

https://doi.org/10.1007/978-3-642-27308-7_36

21. M. Chawla, J. Singhai, S. Jain and A. Shrivastava (2009), “Node Stability based Clustering Algorithm for Mobile Ad Hoc Networks”, IEEE Xplore (WCSN 2008), Page 31 – 35, February 2009.

[10.1109/WCSN.2008.4772677](https://doi.org/10.1109/WCSN.2008.4772677)

22. S. Prasad, N. Tiwari, and M. Chawla (2024), “Zero-Knowledge Proofs in Biometric Authentication Systems: A Review”, Proceedings of CSCT 2023, Published in SPRINGER SIST, Volume 395, Pages 279 – 290 [https://doi.org/10.1007/978-981-97-5081-8_23].
23. C. A. Thasna, M. Chawla, and N. Tiwari (2024), “A Review of Traditional and Neural Network Methods for Protecting Privacy in Big Data Analytics”, Proceedings of ICDLAIR 2023, Published in SPRINGER LNNS, Volume 1001, Pages 158 – 167 [https://doi.org/10.1007/978-3-031-60935-0_15].
24. K. Kapse, M. Chawla, N. Tiwari, and R. Goenka (2024), “Detecting Phishing URLs using Machine Learning: A Review”, Proceedings of ICDLAIR 2023, Published in SPRINGER LNNS, Volume 1001, Pages 266 – 275 [https://doi.org/10.1007/978-3-031-60935-0_24].
25. D. Sahu, N. Tiwari, and M. Chawla (2024), “Blockchain as a Solution for Electronic Health Record Management: A Comprehensive Review”, Proceedings of IEEE SCEECs 2024, IEEE XPLORE [[10.1109/SCEECs61402.2024.10482149](https://doi.org/10.1109/SCEECs61402.2024.10482149)].
26. K. Jhadi, N. Tiwari, and M. Chawla (2024), “Review of Machine and Deep Learning Techniques for Expression based Facial Emotion Recognition”, Proceedings of IEEE SCEECs 2024, IEEE XPLORE [[10.1109/SCEECs61402.2024.10482176](https://doi.org/10.1109/SCEECs61402.2024.10482176)].
27. S. Prasad, N. Tiwari, M. Chawla, and D. S. Tomar (2024), “Zero-Knowledge Proofs in Blockchain-enabled Supply Chain Management”, Published as Book Chapter in SPRINGER CESIBT, Pages 47 – 70 [https://doi.org/10.1007/978-981-97-0088-2_3].
28. K. Jhadi, N. Tiwari, and M. Chawla (2024), “Visual Sentiment-based on FER for improving Feedback Analysis using Transfer Learning”, Proceedings of ICCCNT 2024, IEEE XPLORE [[10.1109/ICCCNT61001.2024.10725403](https://doi.org/10.1109/ICCCNT61001.2024.10725403)].
29. R. Goenka, M. Chawla, and N. Tiwari (2025), “Optimizing Phishing Detection: A Robust Feature Selection using Hybrid GA-PSO”, Proceedings of ICT4SD 2025, Published in SPRINGER LNNS, Volume 1652, Pages 24 – 34 [https://doi.org/10.1007/978-3-032-06691-6_3].
30. S. Awale, M. Chawla, and N. Tiwari (2025), “Advancements in Deep Learning Techniques for Malware Detection: A Comprehensive Review of Emerging Techniques”, presented at World Conference on Artificial Intelligence: Advancements and Applications (WCAIAA) 2025.

Other Conference Proceedings

1. M. Phani Sushanth, M. Chawla and N. Tiwari (2023), “Review: Deep Learning Techniques for Automatic Target Recognition in Infra-Red Images”, AIP Conference Proceedings, Volume 2745, Issue 1 (AMMLAC 2022), Number 020008, July 2023.
<https://doi.org/10.1063/5.0132695>
2. A. Kumar, N. Tiwari and M. Chawla (2023), “Regularized CNN Model for Image Forgery Detection”, Advances in Science and Technology (Trans Tech Publications), Volume 124, Page 762 – 771, February 2023.
<https://doi.org/10.4028/p-y573sx>
3. V. Jadhav, N. Tiwari and M. Chawla (2023), “EEG-based Emotion Recognition using Transfer Learning based Feature Extraction and Convolutional Neural Network”, ITM Web of Conferences, Volume 53 (ICDSIA 2023), Number 02011
<https://doi.org/10.1051/itmconf/20235302011>
4. A. Gupta, M. Chawla and N. Tiwari (2022), “Electricity Power Consumption Forecasting Techniques: A Review”, ELSEVIER SSRN (ICICC 2022), January 2022.
<http://dx.doi.org/10.2139/ssrn.4019431>
5. D. K. Mishra and M. Chawla (2013), “Minimax Theory based Scheme to Detect Selfish Node and Reduce Latency in Delay Tolerant Network”, Atlantis Press (Proceedings of CAC2S 2013), Page 78 – 82, 2013.
6. A. Mehto and M. Chawla (2013), “ Comparing Delay Tolerant Network Routing Protocols for Optimizing L – Copies in Spray and Wait Routing for Minimum Delay”, Atlantis Press (Proceedings of CAC2S 2013), Page 239 – 244, 2013.
7. S. Jain, M. Chawla and N. Gupta (2013), “Weighted Dynamic Bi-Connected Group based Replica Allocation Method for Mobile Ad Hoc Networks”, Atlantis Press (Proceedings of CAC2S 2013), Page 189 – 197, 2013.

Journal Publications (other than SCI / SCOPUS)

1. P. Jain, M. Chawla and S. Sahu (2021), "Face Recognition and Face Detection using Open Computer Vision Classifiers and Python", Intelligent Analytics with Advanced Multi-Industry Applications, IGI Global Publishers.

[10.4018/978-1-7998-4963-6.ch009](https://doi.org/10.4018/978-1-7998-4963-6.ch009)

2. S. Bauskar, V. Badole, P. Jain and M. Chawla (2019), "Natural Language Processing based Hybrid Model for Detecting Fake News using Content-based Features and Social Features", International Journal of Information Engineering and Electronic Business (MECS Press), Volume 4, Page 1 – 10, July 2019.

[10.5815/ijieeb.2019.04.01](https://doi.org/10.5815/ijieeb.2019.04.01)

3. A. K. Malviya and M. Chawla (2017), "Effects of Different Color Models in Hand Gesture Recognition", Indian Journal of Science and Technology, Volume 10, Issue 12, Page 1 – 8, March 2017.

[10.17485/ijst/2017/v10i12/91281](https://doi.org/10.17485/ijst/2017/v10i12/91281)

4. S. Verma and M. Chawla (2015), "A Survey on Spectrum Mobility in Cognitive Radio Network", International Journal of Computer Applications (0975 – 8887), Volume 119, Number 18, Page 33 – 36, June 2015.

5. R. Barskar and M. Chawla (2015), "Vehicular Ad Hoc Networks and its Applications in Diversified Fields", International Journal of Computer Applications (0975 – 8887), Volume 123, Number 10, Page 7 – 11, August 2015.

6. S. Sharma and M. Chawla (2015), "Two Fold Optimization of Pre-Copy based Virtual Machine Live Migration", International Journal of Computer Science and Information Technology (MECS Press), Volume 10, Page 8 – 14, September 2015.

[10.5815/ijitcs.2015.10.02](https://doi.org/10.5815/ijitcs.2015.10.02)

7. S. Sharma and M. Chawla (2014), "A Review on Efficient Virtual Machine Live Migration: Challenges, Requirements and Technology of VM Migration in Cloud", International Journal of Cloud Computing and Services Science, Volume 6, Number 3, Page 1 – 8, December 2014.

[10.11591/closer.v3i6.6915](https://doi.org/10.11591/closer.v3i6.6915)

8. M. S. Sahasrabudhe and M. Chawla (2014), "Survey of Applications based on Vehicular Ad Hoc Network (VANET) Framework", International Journal of Computer Science and Information Technology (0975 - 9646), Volume 5, Issue 3, Page 3937 – 3942, May – June 2014.

9. S. Jain and M. Chawla (2014), "Survey of Buffer Management Policies for Delay Tolerant Networks", The Journal of Engineering (IET), Volume 2014, Issue 3, Page 117 – 123, March 2014.

[10.1049/joe.2014.0067](http://dx.doi.org/10.1049/joe.2014.0067)

10. N. Tiwari, M. Shandilya and M. Chawla (2014), "Spatial Domain Image Steganography based on Security and Randomization", International Journal of Advanced Computer Science and Applications (2156 - 5570), Volume 5, Number 1, Page 156 – 159, January 2014.

11. A. Gupta, N. Tiwari, M. Chawla and M. Shandilya (2014), "An Image Encryption using Block based Transformation and Bit Rotation Technique", International Journal of Computer Applications (0975 – 8887), Volume 98, Number 6, Page 30 – 32, July 2014.

12. R. Singh and M. Chawla (2014), "An Efficient Trust Management Technique for Delay Tolerant Network", International Journal of Computer Applications (0975 – 8887), Volume 98, Number 21, Page 8 – 12, July 2014.

13. A. Mehto and M. Chawla (2014), "Modified Different Neighbor History Spray and Weight using PROPHET in Delay Tolerant Network", International Journal of Computer Applications (0975 – 8887), Volume 86, Number 18, Page 30 – 35, January 2014.

14. S. Jain, N. Kishore, M. Chawla and V. N. G. J. Soares (2014), "Composite Mechanisms for Improving Bubble Rap in Delay Tolerant Networks", The Journal of Engineering (IET), Volume 2014, Issue 1, Page 1 – 7, January 2014.

[10.1049/joe.2013.0117](http://dx.doi.org/10.1049/joe.2013.0117)

15. H. Somani, N. Tiwari, M. Chawla and M. Shandilya (2014), "Image Encryption using Block Shuffling and Affine Transform: A Review", International Journal of Computer Applications (0975 – 8887), Volume 95, Number 19, Page 15 – 19, June 2014.

16. P. K. Goswami, N. Tiwari and M. Chawla (2013), "Block based Image Encryption using Iterative Arnold Transformation", International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, Number 8, August 2013.

17. A. S. A. Ukey, M. Chawla and V. P. Singh (2013), "I-2ACK: Preventing Routing Misbehavior in Mobile Ad Hoc Networks", International Journal of Computer Applications (0975 – 8887), Volume 62, Number 12, Page 34 – 39, January 2013.

18. A. Kumar and M. Chawla (2012), "Destination based Group Gray Hole Attack Detection in MANET through AODV", International Journal of Computer Science Issues (1694 - 0814), Volume 9, Issue 4, Number 1,

Page 292 – 295, July 2012.

19. P. P. Naidu and M. Chawla (2012), “Extended Ad Hoc On Demand Distance Vector Local Repair Trial for MANET”, International Journal of Wireless and Mobile Networks, Volume 4, Number 2, Page 235 – 250, April 2012.

[10.5121/ijwmn.2012.4216](https://doi.org/10.5121/ijwmn.2012.4216)

20. P. Gupta and M. Chawla (2012), “Privacy Preservation for WSN: A Survey”, International Journal of Computer Applications (0975 – 8887), Volume 48, Number 3, Page 11 – 16, June 2012.

21. S. Jain, J. Singhai and M. Chawla (2011), “A Review Paper on Co-operative Gray-Hole and Black-Hole Attacks in Mobile Ad Hoc Networks”, International Journal of Ad Hoc, Sensor and Ubiquitous Computing, Volume 2, Number 3, Page 71 – 80, September 2011.

[10.5121/ijasuc.2011.2305](https://doi.org/10.5121/ijasuc.2011.2305)

22. A. S. A. Ukey and M. Chawla (2010), “Detection of Packet Dropping Attack using Improved Acknowledgement based Scheme in MANET”, International Journal of Computer Science Issues (1694 – 0784), Volume 7, Issue 4, Number 1, Page 12 – 17, July 2010.

23. M. Chawla, J. Singhai and J. L. Rana (2010), “Clustering in Mobile Ad Hoc Networks: A Review”, International Journal of Computer Science and Information Security, Volume 8, Issue 2, Page 293 – 301.

24. N. K. Pali, M. Chawla and J. Singhai (2010), “RTS-AC: Admission Control Method for IEEE 802.11e WLANs”, International Journal of Computer Applications (0975 – 8887), Special Issue on Mobile Ad Hoc Networks (MANETs), Page 8 – 12, 2010.

25. M. Chawla, J. Singhai and J. L. Rana (2010), “Local Repair with Handoff Approach for On Demand Routing Protocols in Ad Hoc Networks”, International Journal of Computer Science and Communication, Volume 1, Number 2, Page 33 – 40, July – December 2010.

26. M. Sharma, M. Chawla, V. Jain and J. Gajrani (2015), “An Improved Feature Vector Storage Metric for Fast Android Malware Detection Framework”, IOSR Journal of Computer Engineering, Volume 17, Issue 4, Version IV, Page 52 – 60, July – August 2015.

[10.9790/0661-17445260](https://doi.org/10.9790/0661-17445260)

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