



**Name of the faculty: Dr. Gourav Shrivastava**

**Designation:** Associate Professor & HOD

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**Educational Qualification:**

Ph.D (CSE) NIT-Bhopal, M. Tech (Information Security) NIT-Bhopal, B.E (CSE)

**Total Experience:** 14 yrs

Academic: 09 yrs. | Research: 05 yrs

**Areas of Interest:**

Artificial Intelligence, Machine Learning, Software Defined Networks

**Brief Profile:**

Dr. Gourav Shrivastava holds M.Tech and Ph.D degree in Computer Science & Engineering from Maulana Azad National Institute of Technology (MANIT), Bhopal, India. He has about 14 years of experience in teaching and research in different areas of Computer Science and is currently working as Associate Professor in the School of Advanced Computing. He has around 35 research papers in reputed International Journals and 2 international & national patents to his credit. His research interest includes Artificial Intelligence & Machine Learning, Mobile Adhoc Network and Software Defined Networks.

**Research publications in International Journal:**

**Total Citation Index: (h-index: 06, i10-index: 02)**

1. Ria JatinKikani, Kirti Verma, Rachna Navalakhe, Gourav Shrivastava, Vineeta Shrivastava, "Cryptography: Recent research trends of Encrypting Mathematics",

Materials today: Proceedings, Elsevier, Vol. 56, pp. 3247-53 (Impact Factor: 1.46) 2021

2. Gourav Shrivastava, Praveen Kaushik & R.K. Pateriya “Comprehensive Analysis of Web Page Classifier for Focused Crawler” International Journal of Innovative Technology and Exploring Engineering, Vol.8, Issue 9, pp.57-65, (Impact Factor: 0.102) 2019
3. Gourav Shrivastava, Praveen Kaushik & R.K. Pateriya, “Load balancing strategies in software defined networks”, International Journal of Engineering & Technology Vol. 7 (3), pp. 1854-1857, (Impact Factor: 0.135) 2018
4. Gourav Shrivastava, Praveen Kaushik & R.K. Pateriya “A Study of Focused Web Crawling Techniques” IJRITCC, Vol.6 (8), pp.1-4, 2018
5. Shubha Soni and G. Shrivastava, “Efficient Mechanism for Congestion Control and Bandwidth Utilization of VANET”, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 5, May – 2014.
6. R. S. Chouhan and G. Shrivastava, “A Hybrid Method to Analyze the Performance of RTS/CTS Protocol in Wireless LAN,” EUSRM, Vol. 6, Issue 5, 2014.
7. B. Nikose, Ravindra Gupta and G. Shrivastav, “Preventing Password Reuse Attacks using Authentication Protocol”, IJRDET, Vol. 4 Issue 2, 2014.
8. A. R. Ashok and G. Shrivastav, “A Spam Filtering Technique using SVM Light Tool.”, IJSR, Vol. 3 Issue 1, 2014
9. P. Gangotia, G. Shrivastava, and J. P. Singh, “An approach of human identification based on gait,” Int. J. Comput. Appl., vol. 93, no. 1, 2014.
10. P. Shrivastava, P. Singh, and G. Shrivastava, “Image classification using SOM and SVM feature extraction,” Int. J. Comput. Sci. Inf. Technol., vol. 5, 2014.
11. S. Singh, J. P. Singh, and G. Shrivastva, “A Review: AIS Based Intrusion Detection System,” Int. J. Inf. Technol., vol. 20, no. 1, 2014.
12. M. Suryawanshi and G. Shrivastava, “Hybrid Technique for Automatic Classification Image Using Information Retrieval,” 2014.
13. A. Bhatnagar, J. P. Singh, and G. Shrivastava, “Image Authentication System using LDPC and Watermarking Technique,” Int. J. Comput. Appl., vol. 73, no. 16, 2013.

14. M. Dubey, P. Singh, and G. Shrivastava, "Location base routing with energy awareness scheme under Wi-Max in MANET for minimization of routing overhead," *Int. J. Comput. Appl.*, vol. 64, no. 3, 2013.
15. A. Gupta and G. Shrivastava, "APDA with Data Collective: A Survey to Prevent Attacks in VANET," *Ed. Wired Wirel. Networks Adv. Appl.*, vol. 3, 2013.
16. R. Gupta, G. Shrivastava, and others, "Wireless Sensor Network: A Survey," *Int. J. Res. Comput. Eng. Electron.*, vol. 2, no. 4, 2013.
17. A. Handa, J. P. Singh, and G. Srivastava, "Software Quality Analysis by Object Oriented Approach and Comparative Analysis with MEMOOD TOOL using UML," *Int. J. Comput. Appl.*, vol. 69, no. 1, 2013.
18. D. Jain and G. Shrivastava, "Media Access Protocol in Vehicular Ad-Hoc Networks: A Survey," *Int. J. Adv. Comput. Res.*, vol. 3, no. 3, p. 246, 2013.
19. G. Pandey, P. Singh, and G. Shrivastava, "OFDM based Foreign Agent for Communication between Wired and WIMAX Network," *Int. J. Comput. Appl.*, vol. 68, no. 18, 2013.
20. G. Shrivastav and others, "An overview and Survey on Contrast Image Enhancement Techniques in Spatial Domain," *Int. J. Adv. Res. Comput. Sci. Electron. Eng.*, vol. 2, no. 12, p. pp--770, 2013.
21. M. Shrivastava, P. Singh, and G. Shrivastava, "A Survey of Knowledge Extraction Classification using Different Techniques," *Int. J. Comput. Appl.*, vol. 82, no. 3, pp. 6–10, 2013.
22. J. K. Singh and G. Shrivastava, "fuzzy logic based contrast image enhancement technique," *IJRCCT*, vol. 2, no. 12, pp. 1448–1453, 2013.
23. S. Singh, "Detection of Abnormal Attributes Based on Correlation Markov Detection Method for Forensic Web," *IOSR J. Eng.*, vol. 3, pp. 11–15, 2013.
24. K. Yadav and G. Shrivastava, "Performance Improvement by Dynamic Queue Management in Mobile Ad hoc Network," *Int. J. Comput. Appl.*, vol. 72, no. 1, 2013.
25. Pragati Shrivastava, G. Shrivastava, "A Survey of Image Classification Based Techniques", *International Journal of Engineering Research & Technology (IJERT)*, Vol. 2 Issue 9, September - 2013
26. M. Z. Arif and G. Shrivastav, "Trusted destination sequenced distance vector routing protocol for mobile ad-hoc network," *Int. J. Comput. Appl.*, vol. 54, no. 15, 2012.

27. N. K. Choudhary, G. Shrivastava, and M. Malviya, "Multi-relational Bayesian Classification through Genetic Approach," *Int. J. Adv. Res. Comput. Commun. Eng.*, vol. 1, no. 7, 2012.
28. S. Dubey, F. Hasan, and G. Shrivastava, "A hybrid method for image Denoising based on Wavelet Thresholding and RBF network," *Int. J. Adv. Comput. Res.*, 2012.
29. M. Jhalani, P. Singh, and G. Shrivastava, "Enhancement over the variant of public key cryptography algorithm," *Int. J. Emerg. Technol. Adv. Eng.*, vol. 2, no. 12, 2012.
30. M. Shrivastava, N. Sharma, and G. Shrivastava, "Knowledge Extraction Mechanism using Vertically Partition id3 and Fuzzy based System.," *International Journal of Computer Science and Information Technologies*, Vol. 5 (2) , 2014, 1688-1691
31. R. Thakur, P. Singh, and G. Shrivastava, "Random walker Segmentation based Cancer Detection technique.," *International Journal of Computer Science and Information Technologies*, Vol. 5 (3) , 2014, 2890-2894
32. A. Tripathi, P. Singh, and G. Shrivastava, "Comparative Study of High Density Impulse Noise Removal Method." *International Journal of Emerging Technology and Advanced Engineering*, Volume 4, Issue 4, April 2014
33. A. Yadav and G. Shrivastava, "Semantic Web Data Mining & Analysis." *IOSR Journal of Computer Engineering*, Volume 16, Issue 5, 2014, PP 57-60
34. G. Shrivastava, "A Effective Content based Image Retrieval System based on Features and Techniques.," *International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)*, Volume 2, Issue 12, December 2013

#### **Papers presented in International Conferences:**

1. Gourav Shrivastava, Sharad Rathore, "A Hybrid Genetic Algorithm (GA) and Particle Swarm Optimization (PSO) in Design of Plant Layouts in Facility Planning", *National E-Conference on Recent Advances in Science & Technology*, 2021.
2. Ashish Kumar Verma, Praveen Kaushik and Gourav Shrivastava "A Network Intrusion Detection Approach Using Variant of Convolution Neural Network" accepted for *International Conference on Communication and Electronics Systems [ICCES*

2019], Coimbatore, India to be held from 17-19 July 2019 (Scopus indexed) DOI: 10.1109/ICCES45898.2019.9002221

3. S. S. Verma, R. Gupta, and G. Shrivastava, "A novel technique for data hiding in audio carrier by using sample comparison in DWT domain," in *Communication Systems and Network Technologies (CSNT)*, 2014 Fourth International Conference on, 2014, pp. 639–643. (Scopus Indexed)
4. S. Singh, J. P. Singh, and G. Shrivastva, "A hybrid artificial immune system for IDS based on SVM and belief function," in *Computing, Communications and Networking Technologies (ICCCNT)*, 2013 Fourth International Conference on, 2013, pp. 1–6.
5. A. Shastri and G. Shrivastava, "Implementation and Performance Comparison of Improved Route Maintenance Strategy in AODV for Quick Route Healing," in *Communication Systems and Network Technologies (CSNT)*, 2013 International Conference on, 2013, pp. 299–302. (Scopus Indexed)
6. Gaurav Shrivastava, "Media Access Protocol in Vehicular Ad-hoc Networks: A Survey", *International Conference on Emerging Trends, Technology and Research (ICETTR-2013)*, Nagpur, 2013
7. S. S. Rawat and G. K. Shrivastava, "Improved id-based proxy re-signcryption scheme," in *Computational Intelligence and Communication Networks (CICN)*, 2012, pp. 730–733. (Scopus Indexed)
8. R. Kumar, J. P. Singh, and G. Srivastava, "Altered Fingerprint Identification and Classification Using SP Detection and Fuzzy Classification," in *Proceedings of the Second International Conference on Soft Computing for Problem Solving (SocProS 2012)*, December 28-30, 2012, 2014, pp. 1343–1349.

#### **Papers presented in National Conferences:**

1. Gaurav Shrivastav, Sandeep Deshmukh "Ad-hoc Networks: A power efficient design" published in *National Conference on Advancement in wired & wireless communication (AWWC-08)* jointly organized by IETE & B.U., Bhopal.2008

#### **Patents:**

1. File Number: 2021102837  
Grant Date: 09.03.2022

Country Filed: Australia

Type: Innovation Patent

Title: A method and system for developing an automated framework for ensuring a negative RTPCR report of a traveller.

2. Design Number: 355348-001

Grant Date: 07.02.2022

Country Filed: India

Type: Design Patent

Title: Smart Dustbin.

### **Master's Level Thesis Guided:**

1. An efficient approach for NN based fingerprint recognition by using CDRBM.
2. Improved ID-based proxy Re-signcryption scheme.
3. An Enhanced Security Mechanism for MANET using AODV.
4. An Energy Efficient Protocol for wireless sensor Network using clustering Approach
5. Performance Improvement Using AODV By Dynamic Queue Management In MANET
6. An Improved Route Maintenance Strategy for Quick Route Healing in AODV
7. An Efficient Congestion Control Mechanism for MANET
8. An Efficient Media Access Protocol for Vehicular Ad-Hoc Networks
9. An enhanced MAC with Collision avoidance for Vehicular Ad-Hoc Network
10. An Improve Probability Based Routing Protocol Over MANET by Using Belief Function
11. Fuzzy Logic Based Contrast Image Enhancement Technique
12. An Approach of Human Identification Based on GAIT
13. Efficient Mechanism for Congestion Control and Bandwidth Utilization of VANET
14. A Hybrid Approach to Enhance The Performance of RTS/ CTS Handshaking Protocol in Wireless.

### **International/National Conference & Workshops Attended:**

1. Participated in National Workshop cum Faculty Development Programme on “NAAC revised guidelines: A Paradigm shift in quality initiatives” organized by Career College, Bhopal, India from 26<sup>th</sup> July to 01<sup>st</sup> August 2021.

**FDP Attended:**

1. One week faculty development program on “Qualitative and Quantitative Approaches for Quality Assurance through Performance Indicators in Engineering Institutions”, organized by PICT, Pune from 2<sup>nd</sup> to 6<sup>th</sup> May 2022.
2. One-week short term training program on “Blockchain Technology & Cryptocurrency” organized by Department of Information Technology of Nagpur Institute of Technology, Nagpur, Maharashtra during 25th June to 2nd July 2021.
3. Two weeks faculty development programme on “Data Science & Its Applications With Python” organized by Department of Computer Science Engineering and E & ICT Academy, NIT Warangal during 10th-19th May 2021
4. One week faculty development programme on “Natural Language Processing” jointly organized by Electronics & ICT Academy at MANIT Bhopal from 06-10 January, 2020
5. Short Term Training Program on “Network Simulation & IPv6”, organized by Department of Mathematics & Computer Application, MANIT Bhopal from October 13-17, 2014
6. Short Term Training Program on “Information Security”, organized by Department of CSE & IT at MANIT, Bhopal from December 10-14, 2007.
7. Short Term Training Program on “Cyber Crime & Cyber Forensic”, organized by Department of CSE & IT at MANIT, Bhopal from December 17-19, 2007.

**Awards/Recognitions:**

1. Got Full Time Research Fellowship leading to PhD degree in Maulana Azad National Institute of Technology, Bhopal

**Workshops/Seminars/Conference Organized:**

1. Organized the International Conferences on “Recent Advances in Sciences and Engineering” as Convener, held at SAGE University Bhopal, India on 23<sup>rd</sup> April 2022.
2. Organized Two Weeks Summer School on “Applications of IoT” from 30<sup>th</sup> May 2022 to 10<sup>th</sup> June 2022 at SAGE University, Bhopal.

**Expert Lectures Delivered:**

1. Delivered a Expert lecture on “Basic concepts of internet and email” for SI/PC/Subedar trainees, MP Police Academy, Bhauri, Bhopal held at MANIT, Bhopal from 1st to 4<sup>th</sup> May 2015.
2. Delivered a Expert lecture on “NAAC Criteria –IV” April 2022 in SAGE University, Bhopal.

**Membership of Professional Bodies:**

1. IEEE (Membership Number: 98281676)
2. CSI-Computer Society of India (Membership Number: F8003999)
3. IAENG-International Association of Engineers (Membership Number: 274939)
4. CSTA-Computer Science Teachers Association.

**Other Achievements:**

3. AIR-407 in GATE-2006.
4. Enterprise Design Thinking Practitioner certified by IBM in October 2020.
5. Completed online non credit course on Machine Learning with Python authorized by IBM and powered by coursera in February 2021.
6. Completed “Virtualization for Beginners” from vmware IT academy on 20<sup>th</sup> October 2021.
7. Completed Oracle Certified Foundation Associate certification on 24<sup>th</sup> February 2022.