

DR. ROHIT TANWAR

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OBJECTIVE:

- Serve the community through teaching and high-quality peer-reviewed publications.
- Develop a funded research program for the welfare of society that involves undergraduate, postgraduate and Ph.D. students.

EDUCATION:

Qualification	Subject	Institute/ University	Year of Passing	Percentage/ CGPA	Division
Ph. D.	Computer Science and Engineering	Kurukshetra University, Kurukshetra, Haryana.	Oct, 2019	—	—
M. Tech.	Computer Engineering	YMCA University of Science and Technology, Faridabad, Haryana.	2011	8.867	First
B. Tech.	Computer Engineering	U.I.E.T, Kurukshetra University, Kurukshetra	2008	70.70%	First
10+2	Non-Medical	D.R.P Sr. Sec School Palwal	2004	83%	First
10 th	Hindi, English, Maths, Science, S,Sciences, Phy Edu.	D.R.P Sr. Sec School Palwal	2002	69%	First

TEACHING EXPERIENCE:

I have more than **13 years** of teaching experience. The details are given below starting from the most recent.

Organization	Designation	Duration	Nature of Duties	Regular/ Part Time
Shri Mata Vaishno Devi University	Associate Professor	Dec 2024- till date	Teaching and Administration	Regular
University of Petroleum and Energy Studies, Dehradun	Senior Associate Professor	March 2024- Dec 2024	Teaching and Administration	Regular
University of Petroleum and Energy Studies, Dehradun	Associate Professor	March 2022- Feb 2024	Teaching and Administration	Regular
University of Petroleum and Energy Studies, Dehradun	Assistant Professor	July 2018- Feb 2022	Teaching and Administration	Regular
Manav Rachna University, Faridabad (formerly MRCE)	Assistant Professor	July 2011 – July 2018	Teaching and Administration	Regular

AWARDS AND ACHIEVEMENTS:

- Research Excellence Award-2023 given by Advanced Optimization Techniques and Applications (AOTA-2023).
- Recipient of research reward in 2021 and 2022 at UPES, Dehradun.

- Qualified NET exam for eligibility of lectureship in June-2012
- Qualified GATE-2012 and GATE-2008.
- Certificate of appreciation on organizing 2-day workshop on Network Security as being the zonal coordinator.
- Won 1st prize in Computer Programming competition at national level in EXCELSIOR-07, EXCELSIOR-08 held at Kurukshetra University Kurukshetra.
- Acquired 3rd position at Distt.level in Physics at senior sec.(10+2) standard.

PH.D/M.TECH. SUPERVISED:

S.No.	PROJECT LEVEL	PH.D/PROJECT TITLE	STUDENT(S) NAME	UNIVERSITY
1	Ph.D (Awarded on 22/11/2021)	An Optimized Video Steganography Technique using Hybrid Approach	Urmila Pilonia	Manav Rachna University, Faridabad.
2	Ph.D (on-going)	Improvising Target Recognition Using Smart Technique	Gangeshwar Mishra	Manav Rachna University, Faridabad.
3	M.Tech Dissertation	Comparative Study of Audio Steganography in Temporal and Frequency Domain	Monika Bisla	Manav Rachna College of Engineering, Faridabad.

RESEARCH EXPOSURE:

Editor/Reviewer:

1. Editorial board member of, "Bohr International Journal of Computer Science (ISSN:2583-455X)".
2. Special Issue Guest Editor: "Cybersecurity in the Era of AI", Future Internet (ISSN 1999-5903) (Scopus, ESCI), url: https://www.mdpi.com/journal/futureinternet/special_issues/2KJD4IMG7L.
3. Special Issue Guest Editor: EAI Endorsed Transactions on Pervasive Health and Technology (Scopus Indexed), url: <https://escrpts.eai.eu/publication/296>.
4. Reviewer, International Journal of Information Security and Privacy (IJISP), IGI Global.
5. Reviewer, EAI Transactions on Internet of Things, EAI Community.
6. Reviewer, Indonesian Journal of Electrical Engineering and Computer Science.

Copyrights/Patent(s):

Application No.	Title	Date of Filing	Status	Category	Inventors
202111039993	A Medicine Dispensing Device and a Method Thereof	3-9-2021	Granted on 1-5-2024	Indian Patent	Rohit Tanwar, Pravleen Kaur, Lakshay Bhardwaj
202011012771	Vehicle Theft Recovery System	24-3-2020	Granted on 1-1-2024	Indian Patent	Amit Verma, Neel Advani, TP Singh, Rohit Tanwar, Anupam, Nitin Uniyal
381242-001	IoT Based Camera for Healthcare Management	10-3-2023	Granted on 29-5-2023	Indian Patent	Rohit Tanwar, Shailee Lohmor Choudhary, Pooja, Neha Nandal, Rinku Sharma Dixit, Rajesh Kumar Popli

202341007288	Fractional-Order Polar Harmonic Transforms with Funk Singular Value Decomposition for Secure Image Watermarking Technique	10-2-2023	Published on 10-2-2023	Indian Patent	Rohit Tanwar, Neha Nandal, Shailee Lohmor Choudhary, Manoj Kumar, Urmila, Sanjay Singh
202111037448	A Self-Healing Method of An Object in A Script and A System Thereof	18-8-2021	published on 15-10-2021	Indian Patent	Rohit Tanwar, Rajesh Popli, Rashmi Popli
11751/2022-CO/SW	Product Rating Estimation using Aspect Level Sentiment Analysis	2-6-2022	Granted on 14-08-2023	Indian Copyright	Rohit Tanwar, Neha Nandal

Funding Project(s):

SNO	ROLE	PROJECT TITLE	AGENCY	BUDGET	PROJECT STATUS
1	Principal Investigator	Prioritizing Parameters Responsible for Fall in Elders	UPES, Dehradun	Rs. 1,00,000 (approx..)	Sanctioned
2	Principal Investigator	Digital Technologies supporting Sustainable Tourism in Rural India: An Analytical Study	ICSSR	Rs. 13,51,500	Applied

Books:

1. Rohit Tanwar, Tanupriya Choudhury, Mazdak Zamani, Sunil Gupta, "Book Title: Information Security and Optimization", Publisher: CRC Press, Taylor & Francis Group, ISBN: 978-03-6749-345-5, Nov-2020, DOI: <https://doi.org/10.1201/9781003045854>, url: <https://www.taylorfrancis.com/books/e/9781003045854>.
2. Rohit Tanwar, Rakesh Saini, S.Balamurugan, Vishal Bharti, Prem Kumar, "Book Title: Advanced Healthcare Systems: Empowering Physicians with IoT-Enabled Technologies", Publisher: Scrivener (Wiley), ISBN: 1119768861, 9781119768869, status- Published on 29th Jan 2022. **(Scopus Indexed)**
3. Rohit Tanwar, Prashant Kumar, Malay Kumar, Neha Nandal, "Book Title: Application of Deep Learning Methods in Healthcare and Medical Science", Publisher: Apple Academic Press (AAP) co-publishing with CRC Press, ISBN: 978-1-00330-385-5, Status: Published.
4. Rohit Tanwar, Keshav Kaushik, Susheela Dahiya, Komal Bhatia, Yulei Wu, "Book Title: Unleashing the Art of Digital Forensics", Publisher: CRC Press, Taylor & Francis Group, ISBN: 978-10-0320-486-2, Status: Published.
5. Rohit Tanwar, Surbhi Bhatia, Varun Sapra, Neelu Jyoti Ahuja, "Book Title: An Intelligent Perspective to Machine Learning for Emerging Technologies", Publisher: CRC Press, Taylor & Francis Group, ISBN: 978-10-3247-846-3, Status: Book Published. **(Scopus Indexed)**
6. Neha Nandal, Rohit Tanwar, Varun Sapra, "Book Title: Sentiment Analysis Unveiled: Technique, Applications and Innovations", Publisher: CRC Press, Taylor & Francis group, ISBN: 9781003504832, Status: In Production.
7. Varun Sapra, Rohit Tanwar, Luxmi Sapra, "CyberMedics: Navigating AI and Security in the Medical Field", Publisher: CRC Press, Taylor & Francis group, ISBN: 9781003518075, Status: In Production.
8. Rohit Tanwar, et.al, "IoT, Blockchain, and Smart Healthcare: Integration Techniques and Case Studies", Publisher: CRC Press, Taylor & Francis group, ISBN: 9781032840024, Status: Call for Chapters.

Journal Publications:

1. Sugandhi Midha, Gaganjot Kaur, Rohit Tanwar, Gyanendra Kumar, Balamurugan Balusamy, "A Novel STRIDE Model for Improved Security and DDoS Mitigation for Software Defined Networking", Computers and Electrical Engineering, ISSN: 1879-0755, IF: 4.3, Publisher: Elsevier, Status: Under Revision. **(SCIE)**
2. Manoj Kumar, Dileep Kumar Yadav, Susmita Ray, *Rohit Tanwar, "Handling Illumination Variation for Motion Detection in Video through Intelligent Method: An Applications for Smart Surveillance System", Multimedia Tools and Applications, ISSN:1573-7721 ,IF:3.6 , Publisher: Springer, Status: Published on 12th Sep 2023, Vol.2023. DOI: <https://doi.org/10.1007/s11042-023-16595-0>. **(SCIE)**
3. Rohit Tanwar ,Shailee Lohmor Choudhary ,Anupam Singh , S. Manoharan , and Kayhan Zrar Ghafoor, "A Pulse Rate-Triggered Wearable Device for Critical Assistance", Journal of Sensors, ISSN:1687-7268, IF:1.9, Publisher: Hindawi, Status: Published in Vol.2022 on 9th June 2022. DOI: <https://doi.org/10.1155/2022/9807188>. **(SCIE)**
4. Rohit Tanwar *, Neha Nandal, Mazdak Zamani, Azizah Abdul Manaf, "Pathway of Trends and Technologies in Fall Detection: A Systematic Review", Healthcare, ISSN: 2227-9032, IF: 2.8, Publisher: MDPI, Status: Published in 10(172) on 17th Jan 2022. DOI: 10.3390/healthcare10010172. **(SCIE)**
5. Rohit Tanwar*, Urmila Pilania, Mazdak Zamani, Azizah Abdul Manaf, "An Analysis of 3D Steganography Techniques", Electronics, ISSN: 2079-9292, IF: 2.9, Publisher: MDPI, Status: Published in 10(19), 2357 on 27th Sep 2021, DOI: <https://doi.org/10.3390/electronics10192357>. **(SCIE)**
6. Neha Nandal, Rohit Tanwar, Tanupriya Choudhury, Suresh Chandra Satapathy, "Context Driven Bipolar Adjustment for Optimized Aspect Level Sentiment Analysis", Journal of Scientific and Industrial Research, ISSN: 0975-1084 (Online) 0022-4456 (Print), IF: 0.555, Publisher: CSIR-NISCAIR, Status: Published in Vol. 79, Feb issue 2020, pp.122-127, DOI: <http://nopr.niscair.res.in/handle/123456789/53592>. **(SCIE)**
7. Gangeshwar Mishra, Prinima Gupta, Rohit Tanwar*, "Target Recognition Using Pre-Trained Convolutional Neural Networks and Transfer Learning", Procedia Computer Science, ISSN 1877-0509, Publisher: Science Direct(Elsevier), status: Published on 1st June 2024, Vol.235 pp:1445-1454. DOI: <https://doi.org/10.1016/j.procs.2024.04.136> **(Scopus Indexed)**.
8. Urmila Pilania, Manoj Kumar, Rohit Tanwar, Neha Nandal, "A Walk-through towards network steganography techniques", Informatics and Automation, ISSN: 2713-3206, Publisher: St. Petersburg Federal Research Center RAS, published on 25th Sep 2023, Vol.22(5), pp:1103-1151. DOI: 10.15622/ia.22.5.6 **(Scopus Indexed)**.
9. Neha Nandal, *Rohit Tanwar, Al-Sakib Pathan, "Analysis based Emotion Extraction for COVID-19 using Crawled Tweets and Global Statistics for Mental Health", Procedia Computer Science, ISSN 1877-0509, Publisher: Science Direct(Elsevier), status: Published on Jan 2023, Vol.218 pp:949-958. DOI: 10.1016/j.procs.2023.01.075. **(Scopus Indexed)**.
10. Amara Aditya, Shahina Anwarul, Rohit Tanwar, Sri Krishna Vamsi Koneru, "An IoT assisted Intelligent Parking System (IPS) for Smart Cities", Procedia Computer Science, ISSN 1877-0509, Publisher: Science Direct(Elsevier), Status: Published in Vol. 218,2023, pp:1045-1054 2023, DOI: <https://doi.org/10.1016/j.procs.2023.01.084>. **(Scopus)**
11. Varun Sapra, Luxmi Sapra, Shailee Lohmor Choudhary, Rohit Tanwar*, "Cloud Enabled Smart Text Book for Reducing School Bag Weights", Neuroquantology, ISSN: 1303-5150, Publisher: Anka Publisher, Status: Published in Vol.20, issue 10, pp.11303-11312, DOI: 10.14704/nq.2022.20.10.NQ551095. **(Scopus)**
12. Neha Nandal, Lipika Goel, Rohit Tanwar, "Machine learning-based heart attack prediction: A symptomatic heart attack prediction method and exploratory analysis", F1000 Research, ISSN: 2046-1402, Publisher: Taylor & Francis, Status: Published on 29th Sep 2022, DOI: <https://doi.org/10.12688/f1000research.123776.1>. **(Scopus)**
13. Pilania, Urmila, Rohit Tanwar, Mazdak Zamani, and Azizah Abdul Manaf. "Framework for Video Steganography Using Integer Wavelet Transform and JPEG Compression." Future

- Internet, ISSN: 1999-5903, IF:3.4, Publisher: MDPI, Status: Published in Vol. 14, Issue 9, 254 on 25th Aug 2022, DOI: <https://doi.org/10.3390/fi14090254>. **(Scopus, ESCI)**
14. Mrinal Goswami, Jayanta Pal, Rohit Tanwar, Prashant Rawat, "A Modular Approach to Design Ternary Content Addressable Memory Architecture in Quantum dot Cellular Automata", International Journal of Information Technology, Vol.-14, PP:41-47, ISSN: 2511-2104 (Print), Publisher: Springer, Status: Published on 14th Jan 2022, DOI: <https://doi.org/10.1007/s41870-021-00836-2>. **(Scopus)**
 15. Urmila Pilania, *Rohit Tanwar, Prinima Gupta, "An ROI based Robust Video Steganography Technique using SVD in Wavelet Domain", Open Computer Science, Vol.10(1), pp:1-16, ISSN: 2299-1093, IF:1.5, Publisher: Degruyter, Status: published on 21st Feb 2022, DOI: <https://doi.org/10.1515/comp-2020-0229>. **(Scopus, ESCI)**
 16. Mrinal Goswami, Rohit Tanwar, Prashant Rawat, Bibhash Sen "Configurable Memory Designs in Quantum-dot Cellular Automata", International Journal of Information Technology, Vol.-13(4), PP:1381-1393, ISSN: 2511-2104 (Print), Publisher: Springer, Status: Published on 5th May 2021, DOI: <https://doi.org/10.1007/s41870-021-00687-x>. **(Scopus)**
 17. Urmila Pilania, *Rohit Tanwar, Prinima Gupta, Tanupriya Choudhury," A Roadmap of Steganography Tools: Conventional to Modern", Spatial Information Research (Springer), IF:2.4, Vol.-29(5), pp:761-774, ISSN: 2366-3294 (Online) 2366-3286 (Print), Publisher: Springer, Status: Published, 16th March-2021, DOI: <https://doi.org/10.1007/s41324-021-00393-7>. **(Scopus, ESCI).**
 18. Urmila Pilania, *Rohit Tanwar, Prinima Gupta," Stable High Capacity Video Steganography in Wavelet Domain", Turkish Journal of Computer and Mathematics Education, Vol.-12(7) ,pp: 2142-2158 , ISSN: 1309-4653 (Online), Status: Published, Apr-2021, DOI: <https://doi.org/10.17762/turcomat.v12i7.3361>. **(Scopus).**
 19. Pinki Sagar, Prinima Gupta, *Rohit Tanwar, "A Novel Prediction Algorithm for Multivariate Data Sets", Decision Making: Applications in Management and Engineering (DMAME), Vol.-4(2) ,pp: 225-240, ISSN: 2620-0104 (Online) 2560-6018 (Print), Publisher: Regional Association for Security and Crisis Management, Status: published on 15th July 2021, DOI: <https://doi.org/10.31181/dmame210402215s>. **(Scopus).**
 20. Neha Nandal, Rohit Tanwar, Jyoti Pruthi, "Machine Learning based Aspect Level Sentiment Analysis for Amazon Products", Spatial Information Research (Springer), IF:2.4, Vol.-28,pp:601-607, ISSN: 2366-3294 (Online) 2366-3286 (Print), Publisher: Springer, Status: published on 26th Feb 2020, DOI:10.1007/s41324-020-00320-2, **(ESCI, Scopus).**
 21. *Rohit Tanwar, Kulvinder Singh, Mazdak Zamani , Amit Verma, Prashant Kumar," An Optimized Approach for Secure Data Transmission using Spread Spectrum Audio Steganography, Chaos Theory and Social Impact Theory Optimizer", Journal of Computer Networks and Communications, IF:2.0, Vol.- 2019, ISSN:2090-715X, Publisher: Hindawi, Status: Published on September 2019, DOI:10.1155/2019/5124364, **(ESCI, Scopus).**
 22. Rohit Tanwar, Sona Malhotra and Kulvinder Singh, "An Approach to Ensure Security using Voice Authentication System", International Journal of Recent Technology and Engineering, Vol. 7(5), pp.161-165, January 2019, ISSN: 2277-3878, Status: Published. **(Scopus Indexed)**
 23. Rohit Tanwar, Sona Malhotra, "A Walk Through Evolutionary Algorithms for their applicability in Steganography", Journal of Advanced Research in Dynamical and Control Systems, Vol.-10(2), pp. 2162-2167, 2018, ISSN:1943-023X, Status: Published. **(Scopus Indexed)**
 24. Sonal Singhla, Shailja Yadav, Rohit Tanwar," Network Security using Lattice based Cryptography", IIOAB Journal, Vol.-10(2), pp.66-71, ISSN:0976-3104, url: <https://www.iioab.org/vol10n2> ,Status: Published in June 2019, **(ESCI).**
 25. Meduri Saketh, Neha Nandal, Rohit Tanwar*, B. Pradyun Reddy," Intelligent surveillance support system", Discover Internet of Things, ISSN: 2730-7239, Publisher: Springer, Status: Published on 7th Sep 2023, Vol. 3(9), DOI: <https://doi.org/10.1007/s43926-023-00039-0>. **(Scopus Indexed)**
 26. Urmila Pilania, Rohit Tanwar, Prinima Gupta," Performance Analysis of Open Source Image Steganography Tools", Journal of Engineering and Applied Sciences (JEAS), ISSN: 1658-7073, Publisher: Majmaah University Center for Publishing and Translation, Status: Published, Vol. 8(1), pp:50-67, DOI:10.5455/jeas.2021050106.

Book Chapters

1. Rahul Singh Chowhan, *Rohit Tanwar, "Password-Less Authentication: Methods for User Verification and Identification to Login Securely Over Remote Sites", Book Title: "Machine Learning and Cognitive Science Applications in Cyber Security", pp.190-212, ISBN: 978-15-2258-100-0, May-2019, DOI: 10.4018/978-1-5225-8100-0.ch008, Publisher: IGI-Global
2. Rahul Singh Chowhan, *Rohit Tanwar, Neha Nandal, Purva Dayya, "Agricultural Expert Systems in India", Book Title: "Advances in Agricultural Sciences", pp.23-38, ISBN: 978-93-5335-579-1, August-2019, Publisher: Akinik Publications.
3. Keshav Kaushik, *Rohit Tanwar, A.K. Awasthi, "Security Tools", Book Title: "Information Security and Optimization", Publisher: CRC Press, Taylor & Francis Group, ISBN: 978-03-6749-345-5, DOI: <https://doi.org/10.1201/9781003045854>.
4. Prem Kumar, *Rohit Tanwar, Sunil Kumar, "Cyber Attacks and their Impact on Real Life", Book Title: "Information Security and Optimization", Publisher: CRC Press, Taylor & Francis Group, ISBN: 978-03-6749-345-5, DOI: <https://doi.org/10.1201/9781003045854>.
5. Priyanka Malik, Madhu Khurana, *Rohit Tanwar, "Digital Marketing: Transforming the Management Practices", Book Title: "Transforming Management with AI, Big-Data and IOT", Publisher: Springer Nature, ISBN: 978-3-030-86749-2, published on 1st Jan 2022. DOI: https://doi.org/10.1007/978-3-030-86749-2_6.
6. Urmila Pilania, *Rohit Tanwar, "Exploring Face Detection and Recognition in Steganography", Book Title: "Unleashing the Art of Digital Forensics (ADF 2021)", Publisher: CRC Press, ISBN: 978-10-0320-486-2, Status: Published.
7. Pooja, Vikas Sagar, *Rohit Tanwar, "Lightweight Approach for Integrity: A Novel Cryptographic Hash Function", Book Title: "Unleashing the Art of Digital Forensics (ADF 2021)", Publisher: CRC Press, ISBN: , Status: Published.
8. Neha Nandal, *Rohit Tanwar, "A Survey of Artificial Intelligent Techniques for Cancer Detection", Book Title: "Artificial Intelligence and Machine Learning: An Intelligent Perspective of Emerging Technologies", Publisher: CRC Press, ISBN: 9781003388319, Status: Published on: 7th Dec 2023.
9. Urmila Pilania, Manoj Kumar, *Rohit Tanwar, Pulkit Upadhyay, Priyanka Narayan, "Music DApp on the Solana Blockchain Platform: Design, Development, and Analysis", Book Title: "Quantum and Blockchain-based Next Generation Sustainable Computing", Publisher: Springer, ISBN: 978-3-031-58067-3, Status: published on 28th July 2024.

Conference Publications:

International Conferences

1. Urmila Pilania, Rohit Tanwar*, "Automatic Identification of White Blood Cells using Convolution Neural Network", International Conference on Computational Intelligence & Internet of Things (ICCIoT-2023) held at Faculty of ICT, University of Malta from Dec 4-6, 2023, Publisher: Springer, Status: Paper presented. **(Scopus Indexed)**.
2. Suman Rani, Manisha, Rohit Tanwar*, "Automated knee osteoarthritis classification using Deep learning Approach", International Conference on Computational Intelligence & Internet of Things (ICCIoT-2023) held at Faculty of ICT, University of Malta from Dec 4-6, 2023, Publisher: Springer, Status: Paper presented. **(Scopus Indexed)**.
3. Neha Nandal, Rohit Tanwar*, Meduri Saketh, Urmila "Impact of COVID-19 on People: A Survey", Mobile Radio Communications & 5G Networks, (MRCN-2023) held at University Institute of Engineering and Technology, Kurukshetra University from Aug 25-26, 2023, Publisher: Springer, Status: Published on 30th April 2024, in Lecture Notes in Networks and Systems, Springer, Vol.915, pp: 149-163, DOI: https://doi.org/10.1007/978-981-97-0700-3_11. **(Scopus Indexed)**.
4. Prachi Chhabra, Sunil Kumar, Gunjan Chhabra, Rohit Tanwar, Amit Virmani, Abhishek Dwivedi, "Personality Trait Classification from Online Text Using Hybrid Deep Learning Techniques" International Conference on Computing, Communications, and Cyber-Security (IC4S-2024) held at Shri Mata Vaishno Devi University, Jammu, India from 29th

- Feb 2024-1st March 2024, published on 31st July 2024 in , Lecture Notes in Networks and Systems, Springer, Vol.991, pp: 689-701, DOI: https://doi.org/10.1007/978-981-97-2550-2_49. **(Scopus Indexed)**.
5. Urmila Pilonia, Rohit Tanwar*, Keshav Kaushik, "Steganography Tools and their Analysis concerning distortion in Stego Image", Advances in Data Science and Computing Technologies (ADSC-2022) held at Kazi Nazrul University, West Bengal, India from June 23-24, 2022, status: Published on 30th Sep 2023 in Lecture Notes in Electrical Engineering, Springer, vol. 1056, pp:531-538, DOI: https://doi.org/10.1007/978-981-99-3656-4_54 . **(Scopus Indexed)**.
 6. K. Meghana, N. Nandal, Rohit Tanwar, L. Goel and G. Chhabra, "Breast Cancer Detection with Machine Learning-A Review," International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2023)held at Shree Venkateshwara Hi-Tech Engineering College, Erode, India, from 23-25 March 2023,status: published in IEEE Explore on 25t April 2023, pp. 168-172, doi: 10.1109/ICSCDS56580.2023.10104644. **(Scopus Indexed)**
 7. Rohit Tanwar*, Keshav Kaushik, "IoT-Assisted Solutions for Monitoring Cancer Patients", Computational Intelligence for Engineering and Management Applications (CIEMA-2022) organized by Regional Association for Security and Crisis Management, Serbia, from March 26-27, 2022, status: published on 30th April 2023 in Lecture Notes in Electrical Engineering, Springer Singapore, vol.984, pp:403-418. DOI: https://doi.org/10.1007/978-981-19-8493-8_31. **(Scopus Indexed)**.
 8. Urmila Pilonia, Pulkit Upadhyay, Rohit Tanwar*, Manoj Kumar, "A Creative Domain of Blockchain Application: NFTs", Mobile Radio Communications and 5G Networks(MRCN-2022) held at UIET Kurukshetra University, Kurukshetra,India from August 5-6, 2022 , status: Published in Lecture Notes in Networks and Systems, vol 588, Springer, Singapore,pp:397-406. DOI: https://doi.org/10.1007/978-981-19-7982-8_32 **(Scopus Indexed)**.
 9. Shubh Gaur, Swati Chaturvedi, Shiavnsh Gupta, Jay Mittal, *Rohit Tanwar, *Mrinal Goswami, "Image Distortion Analysis in Stego-images using LSB", International Conference on Computing, Communications, and Cyber-Security (IC4S-2021) held at Krishna Engineering College, Ghaziabad, India, Oct 30-31, 2021, Status: Published on 3rd July 2022, Lecture Notes in Networks and Systems, vol 421, pp 667-679. Springer, Singapore. https://doi.org/10.1007/978-981-19-1142-2_52. **(Scopus Indexed)**.
 10. Urmila, *Rohit Tanwar, Mamta Arora, Manoj Kumar, "Digitization through SNS: Issues, Challenges, and Recommendations- A Case Study", International Conference on Machine Intelligence and Signal Processing (MISP-2021) held at NIT Arunachal Pradesh, India, Sep 23-Sep25, 2021, Status: Published 2nd Sep 2022, Lecture Notes in Electrical Engineering, Springer Singapore, vol.888,pp:321-333. DOI: https://doi.org/10.1007/978-981-19-1520-8_25. **(Scopus Indexed)**.
 11. Varun Sapra, Luxmi Sapra, Yashi Bansal, Gunjan Chhabra, *Rohit Tanwar, "Machine Learning approach for identifying survival of Bone Marrow Transplant patients", International Conference on Emerging Technologies for Computing, Communication and Smart Cities (ETCCS-2021) held at Baba Farid Group of Institutions, Punjab, India, Aug 21-Aug22, 2021, Status: Published on 20th April 2022, LNEE Series Springer, vol.875 pp: 31-40. DOI: https://doi.org/10.1007/978-981-19-0284-0_3 **(Scopus Indexed)**.
 12. Manoj Kumar, Susmita Ray, Dileep Kumar, *Rohit Tanwar, "A Study of moving vehicle detection and tracking through smart surveillance system", International Conference on Intelligent Cyber-Physical Systems (ICPS-2021) held at IIIT Kota, Rajasthan, India from June 24-26, 2021, Status: Published on 1st Jan 2022. DOI: https://doi.org/10.1007/978-981-16-7136-4_23 **(Scopus Indexed)**.
 13. Keshav Kaushik, Harshpreet Singh Sandhu, Neelesh Kumar Gupta, Naman Sharma *Rohit Tanwar, "A systematic approach for evading antiviruses using malware obfuscation", International Conference on Emergent Converging Technologies and Biomedical Systems (ETBS-2021) held at UIET Kurukshetra University, Kurukshetra, Apr 28- Apr 29, 2021, Publication: Lecture Notes in Electrical Engineering (LNEE) Series, Status: Published on 24th March 2022, vol.-841,pp:29-37 . DOI: https://doi.org/10.1007/978-981-16-8546-0_3. **(Scopus Indexed)**.
 14. Amar Aditya, Rohit Tanwar, Aviral Srivastava, Kratika Arora "An IoT Based Approach for Automatic Garbage Segregation (An Intelligent Garbage Segregator)", International Conference on Artificial Intelligence and Sustainable Engineering (AISE-2020) held at National Institute of Technology Goa, India on 18-20 January 2021, Publication: Lecture Notes in Electrical Engineering (LNEE) Series, Status: Published on 8th April 2022, vol.-837,pp:49-60. DOI: https://doi.org/10.1007/978-981-16-8546-0_6. **(Scopus Indexed)**.

15. Shanu Verma, Rashmi Popli, Harish Kumar, *Rohit Tanwar, "Story Point Based Effort Estimation Model with Machine Learning Techniques in Healthcare", Futuristic Trends in Network and Communication Technologies (FTNCT- 2020), held at Taganrog, Russia, from October 14–16, 2020, published in Communications in Computer and Information Science, vol 1395. Springer, Singapore, DOI: https://doi.org/10.1007/978-981-16-1480-4_50. **(Scopus Indexed)**
16. Shubh Gaur, Swati Chaturvedi, *Rohit Tanwar, "Forest Fire Analysis", INTERNATIONAL CONFERENCE ON SOFT COMPUTING FOR INTELLIGENT SYSTEMS (SCIS – 2020), held at UIET Kurukshetra University, 24-25 Dec 2020, published on 23rd June 2021 in Algorithms for Intelligent Systems, Springer Singapore, pp:331-348, DOI: https://doi.org/10.1007/978-981-16-1048-6_25. **(Scopus Indexed)**.
17. Pravleen Kaur, Lakshay, Rohit Tanwar*, "Structural Health Monitoring System for Bridges using Internet of Things", International Conference On "Mobile Radio Communications and 5G Networks (MRCN-2020), held at UIET Kurukshetra University, July 13th-15th, 2020, url: https://link.springer.com/chapter/10.1007/978-981-15-7130-5_64, published in Lecture Notes in Networks and Systems, vol 140. Springer, Singapore, DOI: https://doi.org/10.1007/978-981-15-7130-5_64 **(Scopus Indexed)**.
18. Rohit Tanwar, Sona Malhotra, Kulwinder Singh "Future of Data Hiding: A walk Through Conventional to Network Steganography", Recent Developments in Science, Engineering and Technology-2019, held at GD Goenka University, Gurgaon from 15-16 Nov 2019, URL: <https://link.springer.com/book/10.1007/978-981-15-5830-6>, published in Springer CCIS series on 28th May 2020, vol.1230, pp:123-132. ISBN: 978-981-15-5829-0, DOI: https://doi.org/10.1007/978-981-15-5830-6_11 **(Scopus Indexed)**.
19. Manoj Attri, Rohit Tanwar, Narender, Neha Nandal "Evaluation of an Efficient Method for Object Detection in video", presented at Recent Developments in Science, Engineering and Technology-2019, GD Goenka University, Gurgaon, URL: <https://link.springer.com/book/10.1007/978-981-15-5830-6>, published in Springer CCIS series on 28th May 2020, vol.1230, pp:442-451, ISBN: 978-981-15-5829-0, DOI: https://doi.org/10.1007/978-981-15-5830-6_37 **(Scopus Indexed)**.
20. Simran Choudhary, Dr. Sanjeev Dhawan, Rohit Tanwar "Spam Detection in Social Network using Machine Learning Approach", presented at Recent Developments in Science, Engineering and Technology-2019, GD Goenka University, Gurgaon, URL: <https://link.springer.com/book/10.1007/978-981-15-5830-6>, published in Springer CCIS series 28th May 2020, vol.1230, pp:236-245, ISBN: 978-981-15-5829-0, DOI: https://doi.org/10.1007/978-981-15-5830-6_20 **(Scopus Indexed)**.
21. Rohit Tanwar and Sona Malhotra, "Opinion Formation Based Optimization in Audio Steganography", International Conference on Information and Communication Technology for Intelligent Systems-2017, held at Pride Plaza Hotel, Ahmedabad in April 2017 by GR Foundations, India, published in Smart Innovation, Systems and Technologies (Springer) Vol.- 83, ISSN:2190-3018, DOI 10.1007/978-3-319-63673-3_39, April 2017 **(Scopus Indexed)**.
22. Rohit Tanwar and Sona Malhotra, "Scope of Support Vector Machine in Steganography", International Conference on Materials, Alloys and Experimental Mechanics (ICMAEM-2017) held at Narsimha Reddy Engineering College, Hyderabad, India from 3-4 July 2017, published in IOP Conf. Series: Materials Science and Engineering 225 (2017) 012077 doi:10.1088/1757-899X/225/1/012077 **(Scopus Indexed)**.
23. Rohit Tanwar, Bhasker Sharma, Sona Malhotra, "A Robust Substitution Technique to Implement Audio Steganography", published in International Conference on Reliability Optimization and Information Technology (ICROIT-2014), IEEE Conference held at Manav Rachna International University, Faridabad, Feb 2014, pp. 290 – 293, ISBN: 978-1-4799-3958-9 **(Scopus Indexed)**.
24. Rohit Tanwar, Monika Bisla, "Audio Steganography", published in International Conference on Reliability Optimization and Information Technology (ICROIT-2014), IEEE Conference held at Manav Rachna International University, Faridabad, Feb 2014, pp.322 – 325, ISBN: 978-1-4799-3958-9 **(Scopus Indexed)**.
25. Aditya, *Rohit Tanwar, Mrinal Goswami, "An Analysis of City Command Centers (CCC's) of Indian Smart Cities", International Conference on Computational Intelligence in Analytics and Information Systems (CIAIS- 2021) held at Manav Rachna University, Faridabad, India on 2-3 April 2021, Publication: AAP and CRC Press, Status: Published ,pp:74-87, ISBN:978-1-00333-236-7.
26. Ronak and Tanwar, Rohit, "Sewage Level Maintenance Using IoT", 5th International Conference on Next Generation Computing Technologies (NGCT-2019), Online Available :February 20, 2020. Available at SSRN: <https://ssrn.com/abstract=3541435> or <http://dx.doi.org/10.2139/ssrn.3541435>

27. Raj, Akash and Tanwar, Rohit and Gupta, Abhishek and Goyal, Abhay, "Bridge Health Monitoring Using IoT" 5th International Conference on Next Generation Computing Technologies (NGCT-2019), Online Available :March 3, 2020. Available at SSRN: <https://ssrn.com/abstract=3547798> or <http://dx.doi.org/10.2139/ssrn.3547798>
28. Rohit Tanwar, Sunil Kumar, Narender Gautam, Ravinder Gautam," A Spatial Domain Steganography Technique Based on Optimal Solution Using Genetic Algorithm", published in International Conference on Mobile & Embedded Technology (MECON-2013) held at Amity University Noida, January 2013, pp.228-232.ISBN:978-93-81583-82-1

National Conferences

29. Rohit Tanwar, Shikha Hans " Steganography", National Conference on Emerging trends in Engineering 2012, SDIMT, Faridabad (Haryana).
30. Rohit Tanwar, "Steganography", National Conference on Emerging trends in Engineering and Technology 2010, BSAITM, Faridabad (Haryana).

Conference/Keynote Organized/Session Chair:

1. Keynote delivered at International Conference on Emerging Trends & Innovation (ICETI-2024) held at Riphah Institute of Systems Engineering, Islamabad, Pakistan, July 29-30, 2024.
2. Organized International Conference on Machine Learning and Data Engineering (ICMLDE-2022) held at UPES Dehradun, September 7-8, 2022.
3. Organized International Conference on Machine Intelligence and Data Science Applications (MIDAS-2020) held at UPES Dehradun, September 4-5, 2020.
4. Organized 5th International Next Generation Computing Technologies (NGCT-2019) held at UPES Dehradun, December 20-21, 2019.
5. Session Chair in International Conference on Futuristic Trends In Networks & Computing Technologies (FTNCT-2023) held at Institution of Engineer's (IEI) Chandigarh, July 29-30, 2023.
6. Session Chair in International Conference on Emerging Technologies for Computing, Communication and Smart Cities (ETCCS-2021) held at Baba Farid Group of Institutions, Punjab, 21-22 August 2021.
7. Session Chair in International Conference on Mobile Radio Communications and 5G Networks (MRCN-2021) held at UIET Kurukshetra University, Kurukshetra, June 23- June 24, 2021.
8. Session Chair in International Conference on Emergent Converging Technologies and Biomedical Systems (ETBS-2021) held at UIET Kurukshetra University, Kurukshetra, Apr 28- Apr 29, 2021.
9. Session Chair in International Conference on Soft Computing in Intelligent Systems (SCIS-2020) held at UIET Kurukshetra University, Kurukshetra, Dec 24- Dec 25, 2020.
10. Session Chair in International Conference on Machine Intelligence and Data Science Applications (MIDAS-2020) held at UPES Dehradun, September 4-5, 2020.
11. Session Chair in International Conference on Mobile Radio Communications and 5G Networks (MRCN-2020) held at UIET Kurukshetra University, Kurukshetra, July 13- July 15, 2020.
12. Session Chair in International Conference on Evolving Technologies for Computing, Communication and Smart World (ETCCS-2020) held at CDAC Noida, Jan 31- Feb 1, 2020.
13. Session Chair in International Conference on Computational Intelligence and Data Analytics, 2018 (ICCIDA-2018) held at GIFT Bhubaneswar, December, 26-27, 2018.
14. Session Chair in International Conference on Computational Intelligence and Data Science (ICCIDS-2018) held at North Cap University, Gurugram, April 7-8, 2018.
15. Session Chair in National Conference, Confluence-2017, held at Advanced Institute of Technology and Management, Palwal, Haryana, February, 22-23, 2017.

Workshops and Faculty Development Program Attended\Organized:

1. Organized National Network Security Championship workshop in Association with ACM IIT Delhi, conducted by Network Bulls, held at Manav Rachna College of Engineering, Faridabad from 12th March to 13th March 2014.
2. Attended AICTE Sponsored 1-week FDP on "Internet of Things", held at J.C. Bose University of Science and Technology, YMCA, Faridabad from 13th Sep-17th Sep 2021.
3. Attended AICTE Sponsored 1-week STTP on "Recent Advancements in Artificial Intelligence and Machine Learning", held at J.C. Bose University of Science and Technology, YMCA, Faridabad from 22nd March 2021 to 27th March 2021.
4. Attended 5-days STC on "Security and Privacy Challenges in Computing Paradigms (SPCCP-2020)", held at Dr. B.R. Ambedkar National Institute of Technology, Jalandhar from 1st Sept 2020 to 5th Sep 2020.
5. Attended 2-week FDP on "Data Science and Analytics" held at St. Martin's Engineering College, Hyderabad from 9th Dec 2019 to 21st Dec 2019.
6. Attended 2-days workshop on "Appllication of Wavelets in Image Processing" held at Manav Rachna College of Engineering, Faridabad in 2014
7. Attended 5-days winter school "CIPR-2016" held at National Institute of Technology, Kurukshetra in Dec 2016.
8. Attended 1-day workshop on "Cyber Security" held at Manav Rachna International University, Faridabad in Oct 2017.
9. Attended 1-day workshop on Intellectual Property Rights: Technology Development to its Commercialization"" (IPRTDC-2019) held at University of Petroleum and Energy Studies (UPES), Dehradun, India in August 2019.

MEMBERSHIPS:

1. Senior Professional IEEE member UP Section India. ID: 97566697.
2. Senior member of EAI Community.
3. Member of Indian Engineering Teachers Association, India (Registered Under Govt.of WB| Regd. No:0266/2019).
4. Joint Secretary, Faridabad Chapter of INDO-UK Confederation of Science Technology and Research, London (Regn No.: 12279255).

CERTIFICATIONS:

1. Microsoft Technology Associate for Introduction to Programming using Python.
2. Emerging Trends & Technologies in the Virtual K-12 Classroom course offered by University of California, Irvine.
3. Advanced Instructional Strategies in the Virtual Classroom course offered by University of California, Irvine.
4. Foundations of Virtual Instruction course offered by University of California, Irvine.
5. Performance Assessment in the Virtual Classroom course offered by University of California, Irvine.
6. Cybersecurity and the Internet of Things course offered by University Systems of Georgia.
7. Introduction to Cybersecurity Tools & Cyber Attacks course offered by IBM.
8. Enterprise System Management and Security course offered by University of Colorado.

ADMINISTRATIVE EXPERIENCE:

1. Working as an active member of team O₃ (One Student-One Project-One Semester) in UPES Dehradun.
2. Working as departmental Research Coordinator in UPES Dehradun.
3. Worked as University Timetable coordinator.
4. Worked as an IT coordinator for NBA and NAAC inspection in Manav Rachna University, Faridabad.
5. Worked as coordinator of zonal center of Network Bulls at MRCE, Faridabad.

6. Conducted University examinations as being the Center Superintendent.
7. Worked as a faculty coordinator in Training & Placement Cell at MRCE, Faridabad.
8. Worked as Technical coordinator of IT Department at MRCE, Faridabad.

LIST OF SUBJECTS TAUGHT:

- Introduction to IoT
- Theory of Automata
- Design and Analysis of Algorithms
- Data Security
- Fundamentals of Computer & C-Programming
- Data Structure
- IT Network Security

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Spouse Name : Dr. Jaya Tanwar
Spouse Occupation : Physiotherapist
Nationality : Indian

References:

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Email: ksingh2015@kuk.ac.in, **Ph. +91-8950507071.**
2. **Dr. Komal Bhatia**, Professor, Department of Computer Science, J C Bose YMCA University of Science and Technology, Faridabad, Haryana, India.
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