

Name of Teaching Staff : Dr. Monika Mangla  
Designation : Assoc. Professor  
Department : Information Technology  
Date of Joining the Institution : Jan 11, 2022  
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Photo

Google Scholar Link : <https://scholar.google.com/citations?user=gkIXUpYAAAAJ&hl=en>  
Researchgate Link: : <https://www.researchgate.net/profile/Monika-Mangla>  
ORCID : <https://orcid.org/my-orcid?orcid=0000-0002-1752-7226>  
Publons Researcher ID : <https://publons.com/researcher/D-9198-2016/>  
Qualifications with Class / Grade : First Class  
Total Experience in Years : 20 Years

- Papers Published in Journal: :
1. Monika Mangla, Deepak Garg published a paper titled “Rapidly converging solution for p-center in non-convex regions” in Turkish Journal of Electrical Engineering & Computer Sciences (SCI Indexed), Faith University, Turkey, 2017 25: 2424-2433
  2. Shouvik Banik, Nonita Sharma, Monika Mangla, Sachi Nandan Mohanty, Shitharth S. published a paper titled “LSTM based decision support system for swing trading in stock market” in Knowledge-Based Systems (SCI indexed), 2022 239
  3. Sourabh Yadav, Nonita Sharma, Monika Mangla, Nitin Goyal, Aman Singh accepted a paper entitled “A Novel Blockchain-Based Organ Donation Chain (OrDo) for Anti-Counterfeits in the Post Supply Chain” in Multimedia Tools and Applications (MTAP) published by Springer (SCI Indexed)
  4. Nonita Sharma, Sourabh Yadav, Monika Mangla, Anee Mohanty, Suneeta Satpathy, Sachi Nandan Mohanty, Tanupriya Choudhary accepted a paper entitled “Geospatial Multivariate Analysis of COVID-19: A Global Perspective” in GeoJournal published by Springer
  5. Nonita Sharma, Monika Mangla, Sachi Nandan Mohanty, Chinmaya Ranjan Pattanaik published a paper titled “A Stacked Multi-Level Ensemble Approach for Disease Prediction” in International Journal of Information Technology (BJIT) published by Springer (Scopus Indexed)
  6. Nonita Sharma, Jaiditya Dev, Monika Mangla, Vaishail Mehta, Sachi Nandan Mohanty, Deepti Kakkar published a paper “A Heterogeneous Ensemble Forecasting Model for Disease Prediction” in New Generation Computing

(119) published by Springer (SCI Indexed) DOI: 10.1007/s00354-020-00119-7

7. Nonita Sharma, Monika Mangla, Sachi Nandan Mohanty published a paper “A Markov Decision Process based Secure Consensus Framework for Leveraging Blockchain Technology in IoT Applications” in International Journal of Electronic Business published by Inderscience.
8. Nonita Sharma, Monika Mangla, Sachi Nandan Mohanty, Deepak Gupta, Prayag Tiwari, Mohammad Shorfuzzaman, Majdi Rawashdeh published a paper “A smart ontology-based IoT framework for remote patient monitoring” in Biomedical Signal Processing and Control (SCI Indexed), 68 (2021), 102717 published by Elsevier
9. Monika Mangla, Nonita Sharma, Poonam Mittal accepted a paper “A Fuzzy Expert System for predicting the Mortality of COVID'19” for publication in Turkish Journal of Electrical Engineering & Computer Sciences (SCI Indexed), Faith University, Turkey DOI: 10.3906/elk-2008-27
10. Shubham Joshi Sonali Kothari Nonita Sharma Mohammad Gouse Galety, Monika Mangla accepted a paper entitled “Constraint Aware Resourcing for Ontology Driven Emergency and Pandemic Situations” in International Journal of Information System Modeling and Design (IJISMD) published by IGI Global
11. Nonita Sharma, Monika Mangla, Sourabh Yadav, Nitin Goyal, Aman Singh, Sahil Verma, Takfarinas Saber accepted a paper “A Sequential Ensemble Model for Photovoltaic Power Forecasting” for publication in Computers and Electrical Engineering published by Elsevier
12. Suneeta Satpathy, Monika Mangla, Nonita Sharma, Hardik Deshmukh, Sachi Nandan Mohanty accepted a paper “Predicting Mortality Rate and Associated Risks in COVID-19 Patients” for publication in Spatial Information Research (Scopus and ESCI Indexed) Doan Van Thang, Monika Mangla, Suneeta Satpathy, Chinmaya Pattnaik, Sachi Nandan Mohanty accepted a paper “A fuzzy-based expert system to analyse purchase behaviour under uncertain environment” in International Journal of Information Technology (BJIT) published by Springer (Scopus Indexed)
2. Sourabh Yadav, Nonita Sharma, Monika Mangla, Asmita Mahajan accepted a paper “Blockchain and IPFS Based Framework for Secure Student Document Record Keeping” in Journal of Educational Multimedia and Hypermedia (JEMH) by AACE publisher (Scopus Indexed)
3. Monika Mangla, Nonita Sharma, Sachi Nandan Mohanty published a paper “A Sequential Ensemble Model for Software Faults Prediction” in Innovations in Systems and Software Engineering (Scopus and ESCI Indexed)
4. Monika Mangla, Nonita Sharma, Sourabh Yadav, Vaishali Mehta, Deepti Kakkar, Prabhakar Kandukuri Published a paper “Multivariate Economic Analysis of the Government Policies and COVID-19 on Financial Sector” in International Journal of Computer Applications in Technology by Inderscience (Scopus and ESCI Indexed)
5. Sourabh Yadav, Monika Mangla, Nonita Sharma, Asmita Mahajan Published a paper “Blockchain Framework for Smart Contract and Distributive ledger for Entity MarketPlace” in Int. J. of Blockchains and Cryptocurrencies by Inderscience (In Typesetting)

6. Asmita Mahajan, Nonita Sharma, Firas Husham AlMukhtar, Monika Mangla, Krishna Pal Sharma, Rajneesh Rani published a paper titled “An Ensemble Approach to Forecast COVID-19 Incidences using Linear and Non-Linear Statistical Models” in International Journal of Computer Applications in Technology by Inderscience (Scopus and ESCI Indexed)
7. Monika Mangla, Deepak Garg published a paper titled “A Capacitated Facility Allocation Approach Based on Residue for Constrained Regions” In: Khanna A., Gupta D., Bhattacharyya S., Snasel V., Platos J., Hassanien A. (eds) International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1059. Springer, Singapore (Scopus Indexed)
8. Monika Mangla, Smita Ambarkar , Rakhi Akhare published a paper titled “A Study To Analyze Impact Of Social Media On Society: WhatsApp In Particular” in International Journal of Education and Management Engineering, 2020, 1, 1-10 DOI: 10.5815/ijeme.2020.01.01
9. Monika Mangla, Deepak Garg published a paper titled “An Automated Parking Guidance system for Megacities” in International Journal of Information Technology and Computer Science, 2018, 1, 52-58 DOI: 10.5815/ijitcs.2018.01.06
10. Monika Mangla, Deepak Garg published a paper titled “Computational Geometry for Resource Location Model in a competitive Environment” published in International Journal of Computer Application (IJCA) in Volume 27, No.5, August 2011
11. Rakhi Akhare, Monika Mangla published a paper titled “Soft Computing and Data Mining: Two-layer approach towards creation of Intelligent Web” in - International Journal of Computer Science information and Engg., Technologies, Issue 5-Volume 1-Series 4
12. Monika Mangla, Rakhi Akhare, Smita Ambarkar published a paper titled “Implementing Genetic Algorithm to solve Facility Location Problem” in International Research Journal of Engineering and Technology (IRJET), 2015, 2, 05 781-784
13. Monika Mangla, Rakhi Akhare published a paper titled “Association Rules Filtration using dynamic methods” in International Research Journal of Engineering and Technology, Vol. 2, Issue 3, June 2015
14. Rakhi Akhare, Smita Ambarkar, Monika Mangla published a paper titled “VOICE-XML - An Innovative Approach in Recent Communication Media” in International Journal of Advanced Research in Computer Science and Software Engineering Volume 6, Issue 11, November 2016
15. Rakhi Akhare, Smita Ambarkar, Monika Mangla published a paper titled “Artificial neural network for e-nose” in International Journal of Engineering Research and General Science Volume 4, Issue 6, November-December, 2016

Papers Presented in Conferences

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1. Monika Mangla, Nonita Sharma, Vaishali Mehta, Sachi Nandan Mohanty, Komal Saxena accepted a paper “Statistical Analysis for Air Quality Assessment and Evaluation: A Data Mining Approach” at 9th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO) Sep 3-4, 2021 held at Amity University
2. Monika Mangla, Amaan Sayyad, Sachi Nandan Mohanty accepted a paper “An AI and Computer Vision based Face Mask Recognition & Detection System” at 2nd International Conference on Secure Cyber Computing and

Communications May 21-23, 2021 held at Dr. B.R Ambedkar National Institute of Technology, Jalandhar

3. Ravi Sharma, Nonita Sharma, Monika Mangla accepted a paper “An Analysis and Investigation of InfoStealers Attacks during COVID-19: A Case Study” at 2nd International Conference on Secure Cyber Computing and Communications May 21-23, 2021 held at Dr. B.R Ambedkar National Institute of Technology, Jalandhar
4. Nonita Sharma, Monika Mangla, Sachi Nandan Mohanty, Suneeta Satpathy accepted a paper “A Gesture Based Remote Control for Home Appliances” at 8th International Conference on “Computing for Sustainable Global Development”, 17th - 19th March, (INDIACom-2021) held at Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA)
5. Nonita Sharma, Monika Mangla, Sachi Nandan Mohanty, Suneeta Satpathy accepted a paper “A Stochastic Neighbor Embedding Approach for Cancer Prediction” at 3rd IEEE Conference on Emerging Smart Computing and Informatics (ESCI-2021) 5th – 7th March held at Pune
6. Sirisha Potluri, Monika Mangla, Suneeta Satpathy, and Sachi Nandan Mohanty published and presented a paper “Detection and Prevention Mechanisms for DDoS Attack in Cloud Computing Environment” at 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) at IIT Kharagpur during July 1 - 3, 2020.
7. Monika Mangla, Smita Ambarkar, Rakhi Akhare, Sanjivani Deokar, Sachi Nandan Mohanty, Suneeta Satpathy presented a paper “A Proposed Framework to achieve CIA in IoT Networks” in International Conference AISE-2020 held at NIT Goa
8. Suneeta Satpathy, Monika Mangla, Sachi Nandan Mohanty and Sirisha Potluri published and presented a paper “GA Based Iterative Optimization System to Supervise Adaptive Workflows in Cloud Environment” at 2nd International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) held at Kolkata July 2, 2020 to July 4, 2020.
9. Monika Mangla, Rajeshri Aneesh and Archana Arudkar published and presented a paper “Internet of Things and Smart Homes: A Review” at International Conference on Computational Intelligence and Data Analytics ICCIDA -2018 held at Gandhi Institute of Technology, Odhisa in October 2018
10. Published a paper titled “Exploiting OLAP and data mining for augmenting e-business” in International Conference on Intelligent Agent & Multi-Agent Systems 2009 IEEE. doi: 10.1109/IAMA.2009.5228057
11. Published and presented a paper titled “Secure communication in VANET” in UGC sponsored National Conference on Computing, Communication and Information Technology CCIT-2013 held at Yashwantrao Mohite College, PUNE
12. Published a paper titled “A novel and effective suffix based IP address Assignment and Routing Mechanism” International conference held at Hyderabad.
13. Published a paper titled “Crawl only dissimilar pages- a novel and effective approach for crawler resource utilization”, International conference on web sciences ICWS 2009 held at Vijayawada.

14. Published a paper titled “Handling practical issues in SAARM: Suffix based IP Address Assignment and Routing Mechanism for tree networks”, International conference IISN 2008 held at Yamunagar, Haryana in Feb 2009
15. Published a paper titled “Hidden web: Now an Easy Access- An approach for integration of Search Interfaces over hidden web”, International conference on advance computing ICACT held at Hooghly in Feb 2009.
16. Published a paper titled “Soft Computing: A futuristic promising future for e-retailing” national conference on quantum computing NAQC-2008 held at Kolkata
17. Published a paper titled “An Algorithm for merging search interfaces using semantic mappings in the Hidden web”, National level conference held at Haryana Engineering College, Jagadhri, Haryana in 2008.
18. Published a paper titled “Practical issues in AARM: Peer to Peer network using unique IP address assignment and routing mechanism”, IEEE sponsored international conference held at FISAT, Ernakulum, Kerala in 2008.
19. Published and presented a paper titled “Course Outcome Attainment System” in 2nd International conference on Advance trends in Engineering organized by ISTE-DMCE Chapter, April, 2018.

Area of Specialization : Algorithms, Location Modeling, Machine Learning, Time Series Forecasting

PhD Guide ? Give field & University : **Field:** No  
**University:**

PhDs / Projects Guided : **PhDs :**  
**Projects at**  
**Masters level:**

Books Published / IPRs / Patents	: Books (Editors for conference Proceedings on Springer)	<ol style="list-style-type: none"> <li>1. Monika Mangla, Suneeta Satpathy, Bhagirathi Nayak, Sachi Nandan Mohanty editing a book “An Integration of Cloud Computing with IoT: Foundation, Analytics and Application” to be published by Scrivener publishing, Wiley Group.</li> <li>2. Sachi Nandan Mohanty, Jyotir Moy Chatterjee, Monika Mangla, Suneeta Satpathy, Sirisha Potluri editing a book “Machine Learning Approach for Cloud Data Analytics in IoT” to be published by Scrivener publishing, Wiley Group.</li> <li>3. Monika Mangla, Nonita Sharma, Poonam Mittal, Vaishali Mehta, Thirunavukkarasu K, Shahnawaz Khan editing a book “The emergence of Technology for Automated Healthcare: IoT and DL Models” to be published by Scrivener publishing, Wiley Group.</li> <li>4. Monika Mangla, Ashok Kumar, Vaishali Wadhwa, Megha Bhushan, Sachi Nandan Mohanty editing a book “Demystifying IoT- Challenges and Applications” to be published by Apple Academic Press, Taylor and Francis group.</li> <li>5. Monika Mangla, Subhash K. Shinde, Vaishali Wadhwa, Nonita Sharma, Sachi Nandan Mohanty editing a book “Handbook of Research on Machine Learning” to be published by Apple Academic Press, Taylor and Francis group.</li> </ol>
Professional Memberships	:	IEEE
Grants fetched	: Minor Research Grant (University of Mumbai)	Received a Minor Research Grant of 15000 from University of Mumbai for “ <i>Devising Efficient Algorithm for Detection of Image Tampering</i> ”

Interaction with Professional Institutions : **Guest Lectures:**

1. Delivered an expert talk on *Prerequisites of Machine Learning* on 28-06-2021 in Online One-Week FDP programme on “Reach to Innovative Tech” organized by the Department of Information Technology, G.L. Bajaj Institute of Technology & Management, Greater Noida, Uttar Pradesh.
2. Delivered an expert talk on *Role of Machine Learning in Healthcare: A Practical Approach* in 1 week online STTP Bio-Medical Systems Design using Artificial Intelligence & Machine Learning 7th to 12th September, 2020 organized by G.H Raison College of Engineering.
3. Oral presentation at the OpenTox Euro 2020 OpenTox Virtual Conference on September 21-25, 2020.

**Other Achievements and Responsibilities:**

1. Reviewer for track Artificial Intelligence and Machine Learning in the ICCICT-2021 organized by Sardar Patel Institute of Technology, Mumbai during 25-27 June 2021.
2. Reviewer in the 9<sup>th</sup> International Conference ICRITO 2021 organized by Amity University, Noida during 3-4 September 2021.
3. Reviewer in the International Conference on Innovation, Research and Challenges in Emerging Technologies (IRCET-2021) organized by Panipat Institute of Engineering & Technology during 19-20 November 2021.
4. Reviewer in the second International Conference on Automation, Computing and Communication (ICACC-2021) organized by Ramrao Adik Institute of Technology, D Y Patil Deemed to be University, Navi Mumbai, India during 14-15 July, 2021.
5. Technical Program Committee Member in the International Conference on Machine Intelligence and Data Science Applications (MIDAS-2020) organized by University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India during 4-5 September 2020.

Subjects Taught : **UG Level:** Data Structures, Analysis of Algorithms, Theory of Computer Science, Database Management System,

**PG Level:** Algorithms and Complexity

Projects Guided : **UG Level:**

**PG Level:**

Recommended Students for  
Higher Education

**Name of the University/Industry  
Student**

Institute/Department  
Responsibility handled:

Research Publication & IPR (RnD Club)  
Seminars / Workshops / FDP / STTP Coordinator

Pedagogy Development