



Contact Details

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Educational Qualification

Year	Degree/Program	Board University
2014	Ph.D.	Maulana Azad National Institute of Technology, Bhopal
2007	M.Tech	Maulana Azad National Institute of Technology, Bhopal
2003	B.E	Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal

Teaching Experience

Organization	Start Date	End Date	Designation	Nature of Work
Maulana Azad National Institute of Technology Bhopal, Madhya Pradesh	May 2010	Continuing	Assistant Professor	Academic
Impetus infotech PVT. India Ltd	Jan 2007	May 2010	Software Engineer	Industry
T.I.E.I.T Bhopal	Jan 2004	Aug 2005	Lecturer	Academic
SSSIST Sehore	Aug 2003	Dec 2003	Lecturer	Academic

Ph.D. Supervised/Ongoing

Name of the Student	Topic	Year of Award	Co-Supervisor (if any)
Gaurav Hajela	Crime Pattern Prediction using Bigdata Analytics and Machine Learning	2022	Dr. Meenu Chawla
Kapil Kumar Soni	Design and Analysis of Quantum based Pattern Matching Algorithms	2023	Nil
Aditya Dubey	Missing At Randon Data Imputation using Similarity based Techniques	2023	Nil
Abhishek Jadhav	Attention-based Computational Models for Medical Image Segmentation	Ongoing	Dr. Manasi Gyanchandani
Muktesh Gupta	Change Point Detection-based Prediction for Time-series	Ongoing	Dr. Rajesh Wadhvani

	Data Applications		
Debangana Ram	Big Data Privacy	Ongoing	Dr. Manasi Gyanchandani
Saima Hasib	Quantum Machine Learning	Ongoing	Dr. Manasi Gyanchandani

Patents				
Title	Year	Agency	Co-Investigator(if any)	Published/Granted
A SMART AGRICULTURE SYSTEM AND METHOD INTEGRATED WITH IOT DEVICES	2021	Intellectual Property India	-	Published

Administrative Work Done		
Activity	Duration	Total Time
PG Coordinator (Computer Networking)	2022 to till date	1+ years
Tutor Mentor Scheme Coordinator	2022 to till date	1+ years
Institute Industry Interaction Coordinator	2018 to 2021	3 years
Department Examination Coordinator	2017 to 2021	4 years
MANIT Plagiarism Co-Coordinator	2014 to 2016	3 years
CSE Contract Faculty Coordinator	2013 to 2016	4 years
MANIT Networking team member	2013 to 2015	2 years
CSE Deptt. Time Table Coordinator	2012 to 2015	3 years
Parallel Computing Lab I/C	2012 to till date	10+ years
NKN Team member	2012 to 2015	3 years
Member of UG & PG BOS, CSE	2011 to 2016	5 years
CSE TPO Faculty Coordinator	2010 to 2015	5 years

Other Information	
Activity	Count
Workshops/Short-Term Training Programs Attended	18
Workshops/Short-Term Training Programs Organized	06
Conferences Organized	01

Publications
- International Journals: 25 - International Conference: 34 - Book Chapters: 12
Journal Papers - Muktesh Gupta, Rajesh Wadhvani, and Akhtar Rasool. "Comprehensive analysis of change-point dynamics detection in time series data: A review." Expert Systems with Applications (2024): 123342. - Aditya Dubey, Rahul Ahirwar, Akhtar Rasool, Ankit Kumar, and Sachin Mehra. "Employing Transfer Learning and LSTM Networks for COVID-19 Detection via Chest X-Ray Imagery." Traitement du Signal 40, no. 4 (2023). - Muktesh Gupta, Rajesh Wadhvani, Akhtar Rasool, "A real-time adaptive model for bearing fault classification and remaining useful life estimation using deep neural network", Knowledge-Based Systems, Elsevier, ISSN 0950-7051, pp.110070 (22 pages), Volume 259, 2023.

4. Muktesh Gupta, Rajesh Wadhvani, Akhtar Rasool, "Real-time Change-Point Detection: A deep neural network-based adaptive approach for detecting changes in multivariate time series data", Expert Systems with Applications, Elsevier, ISSN 0957-4174, pp.118260 (16), Volume 209,2022.
5. Aditya Dubey, Akhtar Rasool, "Usage of Clustering and Weighted Nearest Neighbors for Efficient Missing Data Imputation of Microarray Gene Expression Dataset", Advanced Theory and Simulations, Wiley, ISSN 2513-0390, pp. 1-16, Volume 5, 2022.
6. Aditya Dubey, Akhtar Rasool, "Recent advances and applications of deep learning technique", Journal of Theoretical and Applied Information Technology, Little Lion Scientific, ISSN 1992-8645, pp. 5000-5009, Volume 100, 2022.
7. Aditya Dubey, Akhtar Rasool, "Usage of deep learning in recent applications", Archives of Materials Science and Engineering, International OCSCO World Press, ISSN 1897-2764, pp.49-57, Volume 115, 2022.
8. Kapil Kumar Soni, Akhtar Rasool, "Quantum-effective exact multiple patterns matching algorithms for biological sequences", PeerJ Computer Science, PeerJ Inc, ISSN 2167-8359, e957 (55 pages), Volume 8, 2022.
9. Aditya Dubey, Akhtar Rasool, "Efficient technique of microarray missing data imputation using clustering and weighted nearest neighbour", Scientific Reports, Nature Publishing Group UK, ISSN 2045-2322, pp. 1- 12, Volume 11, 2021.
10. Gaurav Hajela, Meenu Chawla, Akhtar Rasool, "Crime hotspot prediction based on dynamic spatial analysis", ETRI Journal, Wiley, ISSN 1225-6463, pp. 1058-1080, Volume 43, 2021.
11. Amarjeet Yadav, Aditya Dubey, Akhtar Rasool, Nilay Khare, "Data mining based imputation techniques to handle missing values in gene expressed dataset", International Journal of Engineering Trends and Technology, Seventh Sense Research Group, ISSN 2231-5381, pp. 242-250, Volume 69, 2021.
12. Kapil Kumar Soni, Akhtar Rasool, "Quantum-based exact pattern matching algorithms for biological sequences", ETRI Journal, Wiley, ISSN 12256463, pp. 483-510, Volume 43, 2021.
13. Gaurav Hajela, Meenu Chawla, Akhtar Rasool, "A multi-dimensional crime spatial pattern analysis and prediction model based on classification", ETRI Journal, Wiley, ISSN 12256463, pp. 272-287, Volume 43, 2021.
14. Gaurav Hajela, Meenu Chawla, Akhtar Rasool, "A Heuristic Approach to Crime Prediction based on Generalization of Crime Categories", Recent Patents on Engineering, Bentham Science, ISSN (Print) 1872-2121, ISSN (Online) 2212-4047, pp. 74-79, Volume 15, 2021.
15. Kapil Kumar Soni, Akhtar Rasool, "Quantum Computation Based Grover's Search Algorithm and its Variations", Recent Patents on Engineering, Bentham Science, ISSN (Print) 1872-2121, ISSN (Online) 2212-4047, pp.45-54, Volume 15, 2021.
16. Chiranjit Das, Akhtar Rasool, Aditya Dubey, Nilay Khare, "Analyzing the Performance of Anomaly Detection Algorithms", International Journal of Advanced Computer Science and Applications, Science and Information (SAI) Organization Limited, ISSN : 2156-5570, pp. 439-445, Volume 12, 2021.
17. Aditya Dubey, Akhtar Rasool, "Clustering-based hybrid approach for multivariate missing data imputation", International Journal of Advanced Computer Science and Applications, Science and Information (SAI) Organization Limited, ISSN 2156-5570, pp. 710-714, Volume 11, 2020.
18. Gaurav Hajela, Meenu Chawla, Akhtar Rasool, "A clustering based hotspot identification approach for crime prediction", Procedia Computer Science, Elsevier, ISSN 1877-0509, pp. 1462-1470, Volume 167, 2020.
19. Kapil Kumar Soni, Akhtar Rasool, "Pattern matching: a quantum oriented approach", Procedia Computer Science, Elsevier, ISSN 1877-0509, pp. 1991-2002, Volume 167, 2020.
20. Prakhar Shrivastava, Kapil Kumar Soni, Akhtar Rasool, "Classical equivalent quantum unsupervised learning algorithms", Procedia Computer Science, Elsevier, ISSN 1877-0509, pp.1991-2002, Volume 167, 2020.
21. Akhtar Rasool, Gulfishan Firdose Ahmed, Raju Barskar, Nilay Khare, "Efficient multiple pattern

matching algorithm based on BMH: MP-BMH", The International Arab Journal of Information Technology, Zarqa University Jordan, ISSN: 1683-3198, pp.1121-1130, Volume 16, 2019.

22. Akhtar Rasool, Kapil Kumar Soni, "Searching Speedup through Quantum Computing", Journal of Advance Research in Dynamical & Control Systems, Institute of Advanced Scientific Research, ISSN: 1943-023X, pp. 113-123, Volume 10, 2018.
23. Aditya Dubey, Akhtar Rasool, "Impact on Air Quality Index of India Due to Lockdown", Procedia Computer Science, Elsevier, ISSN 1877-0509, pp. 969-978, Volume 218, 2023.
24. Abhishek Jadhav, Akhtar Rasool, Manasi Gyanchandani, "Quantum Machine Learning: Scope for real-world problems", Procedia Computer Science, Elsevier, ISSN 1877-0509, pp. 2612-2625, Volume 218, 2023.
25. Rahul Rane, Aditya Dubey, Akhtar Rasool, Rajesh Wadhvani, "Data Mining Based Techniques for Covid-19 Predictions", Procedia Computer Science, Elsevier, ISSN 1877-0509, pp. 210-219, Volume 218, 2023.

Conference

1. Tiwari, Rudra, Ayushi Prajapati, Saravana Chandran, Divyansh Agrawal, Akhtar Rasool, and Abhishek Jadhav. "Emotion Detection through Human Verbal Expression Using Deep Learning Techniques." In 2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp. 1-7. IEEE, 2024.
2. Sukhramani, Kritika, Harshika Kumre, Akhtar Rasool, and Abhishek Jadhav. "Binary Classification of News Articles using Deep Learning." In 2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp. 1-9. IEEE, 2024.
3. Sinha, Rahul, Pragati Agrawal, and Akhtar Rasool. "Hyperparameter Tuned Cloud Based Cyber Physical Attack Detection using Stacking Ensemble Learning." In 2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp. 1-6. IEEE, 2024.
4. Rahul Rane, Aditya Dubey, Akhtar Rasool, Rajesh Wadhvani, Neural Network Based Mortality Prediction in Covid-19 Dataset International Conference on Artificial Intelligence of Things 30-31 March 2023
5. Ananya Raj, Aditya Dubey, Akhtar Rasool and Rajesh Wadhvani, Machine Learning based Missing Data Imputation Techniques 14th International Conference On Computing, Communication And Networking Technologies (Iccnt) · July 6th - 8th, 2023
6. Shoaib Ahmed, Aditya Dubey, Akhtar Rasool and Manasi Gyanchandani, Access Control and Encryption Techniques during Big Data Accessing Stage 14th INTERNATIONAL CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES (ICCCNT) · July 6th - 8th, 2023.
7. Anshul Kumar, , Rajesh Wadhvani, Akhtar Rasool, and Muktesh Gupta. "Quantile Regression in Machine Learning: A Survey." In 2023 Third International Conference on Secure Cyber Computing and Communication (ICSCCC), pp. 750-755. IEEE, 2023.
8. Aman Pant, Akhtar Rasool and Rajesh Wadhvani, Recommendation System for Health-care using Reinforcement learning: A survey 11th International Conference on contemporary Engineering and Technology
9. Shivangi Tripathi, Abhishek Jadhav and Akhtar Rasool Medical Image Segmentation using Deep Learning Method 4th International Conference on Data Science and Applications (ICDSA 2023)
10. Rishita Raj, Rajesh Wadhvani, Akhtar Rasool, and Muktesh Gupta. "Quantile Regression Approach in Analysis of Factors Affecting Song Popularity." In 2023 Third International Conference on Secure Cyber Computing and Communication (ICSCCC), pp. 61-66. IEEE, 2023
11. Akhtar Rasool, Aman Pant, Rajesh Wadhvani, Abhishek Jadhav, "Heart disease prediction using image segmentation Through the CNN model.", 2023 13th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2023, pp.374-380, Online 978-1-6654-6263-1, Print 978-1-6654-6264-8, 2023.
12. Akhtar Rasool, Shivangi Tripathi, Rajesh Wadhvani, Abhishek Jadhav, ""Comparison Analysis of

- Deep Learning Models in Medical Image Segmentation", 2023 13th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2023, pp. 468-471, Online 978-1-6654-6263-1, Print 978-1-6654-6264-8, 2023.
13. Risham Kumar Pansari, Akhtar Rasool, Rajesh Wadhvani, Aditya Dubey, Machine Learning Based Stock Market Prediction International Conference on Next Generation Systems and Networks, 4-5 November, 2022
 14. Rahul Ahirwar, Akhtar Rasool, Aanya Chouhan, Aditya Dubey, Sachin Mehra, Ankit Kumar, "Covid-19 Detection based on Transfer Learning & LSTM Network using X-ray Images", 2022 IEEE World Conference on Applied Intelligence and Computing (AIC), Sonbhadra, India, 2022, pp. 300-306, Online 978-1-6654-7988-2 Print 978-1-6654-7989-9, 2022.
 15. Mayank Shukla, Akhtar Rasool, Aditya Jain, Vishwas Sahu, Prerak Verma, Aditya Dubey, "COVID-19 Detection Using Raw Chest X-Ray Images", 2022 IEEE World Conference on Applied Intelligence and Computing (AIC), Sonbhadra, India, 2022, pp. 320-325, Online 978-1-6654-7988-2 Print 978-1-6654-7989-9, 2022.
 16. "Ayush Soni, Akhtar Rasool, Aditya Dubey, Nilay Khare, "Data Mining based Dimensionality Reduction Techniques", 2022 International Conference for Advancement in Technology (ICONAT), Goa, India, 2022, pp. 1-8, Online 978-1-6654-2577-3 Print 978-1-6654-2578-0, 2022.
 17. "Vecha Sri Charan, Akhtar Rasool, Aditya Dubey, "Stock Closing Price Forecasting using Machine Learning Models", 2022 International Conference for Advancement in Technology (ICONAT), Goa, India, 2022, pp. 1-7, Online 978-1-6654-2577-3 Print 978-1-6654-2578-0, 2022.
 18. "Parth Vyas, Falak Sharma, Akhtar Rasool, Aditya Dubey, "Supervised Multimodal Emotion Analysis of Violence on Doctors Tweets", 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics, and Cloud) (I-SMAC), Palladam, India, 2021, pp. 962-967, Online ISSN 2768-0673 Print 2768-0665, 2021.
 19. Manish Kumar Sharma, Prince Kumar, Akhtar Rasool, Aditya Dubey, Vishal Kumar Mahto, "Classification of Actual and Fake News in Pandemic", 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, 2021, pp. 1168-1174, Online ISSN 2768-0673 Print 2768-0665, 2021.
 20. "Vikesh Kumar Gond, Aditya Dubey, Akhtar Rasool, "A Survey of Machine Learning-Based Approaches for Missing Value Imputation", 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2021, pp. 1-8, Online 978-1-6654-3877-3 Print 978-1-6654-4604-4, 2021.
 21. MA Aromal, Akhtar Rasool, Aditya Dubey, BN Roy, "Optimized Weighted Samples Based Semi-supervised Learning", 2021 Second International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, 2021, pp. 1311-1318, Online 978-1-6654-2867-5 Print 978-1-6654-2868-2, 2021.
 22. "Priyanka Jojan, Kapil Kumar Soni, Akhtar Rasool, "Classical and Quantum based Differential Cryptanalysis Methods", 2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kharagpur, India, 2021, pp. 1-7, Online 978-1-7281-8595-8 Print 978-1-7281-8596-5, 2021.
 23. Drishti Beohar, Akhtar Rasool, "Handwritten Digit Recognition of MNIST dataset using Deep Learning state-of-the-art Artificial Neural Network (ANN) and Convolutional Neural Network (CNN)", 2021 International Conference on Emerging Smart Computing and Informatics (ESCI), Pune, India, 2021, pp. 542-548, Online 978-1-7281-8519-4 Print 978-1-7281-8520-0, 2021.
 24. MA Aromal, Akhtar Rasool, "Semi Supervised Learning Using Graph Data Structure – A Review", 2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), Tirunelveli, India, 2021, pp. 894-899, Online 978-1-6654-1960-4 Print 978-1-6654-2998-6, 2021.
 25. Lakhan Jasuja, Akhtar Rasool, Gaurav Hajela, "Voice Gender Recognizer Recognition of Gender from Voice using Deep Neural Networks", 2020 International Conference on Smart Electronics and Communication (ICOSEC), Trichy, India, 2020, pp. 319-324, Online 978-1-7281-5461-9 Print 978-1-

7281-5462-6, 2020.

26. Yuktaa Tiwari, Akhtar Rasool, Gaurav Hajela, "Machine Learning with Generative Adversarial Network", 2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2020, pp. 543-548, Online 978-1-7281-5374-2 Print 978-1-7281-5375-9, 2020.
27. Vineet Sharma, Akhtar Rasool, Gaurav Hajela, "Prediction of Heart disease using DNN", 2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2020, pp. 554-562, Online 978-1-7281-5374-2 Print 978-1-7281-5375-9, 2020.
28. Disha Uke, Kapil Kumar Soni, Akhtar Rasool, "Quantum based Support Vector Machine Identical to Classical Model", 2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Kharagpur, India, 2020, pp. 1-6, Online 978-1-7281-6851-7 Print 978-1-7281-6852-4, 2020.
29. Barkha Soni, Nilay Khare, Kapil Kumar Soni, Akhtar Rasool, "Classical Equivalent Quantum Based Efficient Data Preprocessing Algorithm", 2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Kharagpur, India, 2020, pp. 1-7, Online 978-1-7281-6851-7 Print 978-1-7281-6852-4, 2020.
30. G Krishna Vamsi, Akhtar Rasool, Gaurav Hajela, "Chatbot: A Deep Neural Network Based Human to Machine Conversation Model", 2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Kharagpur, India, 2020, pp. 1-7, Online 978-1-7281-6851-7 Print 978-1-7281-6852-4, 2020.
31. Aditya Dubey, Akhtar Rasool, "Data Mining based Handling Missing Data", 2019 Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, 2019, pp. 483-489, Online 978-1-7281-4365-1 Print 978-1-7281-4366-8, 2019.
32. Kapil Kumar Soni, Akhtar Rasool, "Classical Equivalent Quantum Based Pattern Matching Algorithms", 2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Kanpur, India, 2019, pp. 1-7, Online 978-1-5386-5906-9 Print 978-1-5386-5907-6, 2019.
33. Prakhar Shrivastava, Kapil Kumar Soni, Akhtar Rasool, "Evolution of Quantum Computing Based on Grover's Search Algorithm", 2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Kanpur, India, 2019, pp. 1-6, Online 978-1-5386-5906-9 Print 978-1-5386-5907-6, 2019.
34. Subhra Shriti Mishra, Akhtar Rasool, "IoT Health care Monitoring and Tracking: A Survey", 2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI), Tirunelveli, India, 2019, pp. 1052-1057, Online 978-1-5386-9439-8 Print 978-1-5386-9440-4, 2019.

Book Chapter

1. "Akhtar Rasool, Amarjeet Yadav, Aditya Dubey, Nilay Khare,"A Hybrid Approach for Missing Data Imputation in Gene Expression Dataset Using Extra Tree Regressor and a Genetic Algorithm", Lecture Notes in Electrical Engineering, Springer Nature Singapore, Print 978-981-99-0046-6, Online 978-981-99-0047-3, Vol 998, 2023.
2. Akhtar Rasool, Parth Vyas, Manish Sharma, Aditya Dubey, "Comparative Study of Loss Functions for Imbalanced Dataset of Online Reviews", Lecture Notes in Electrical Engineering, Springer Nature Singapore, Print 978-981-99-0046-6 Online 978-981-99-0047-3, Vol 998, 2023.
3. Akhtar Rasool, Vikesh Kumar Gond, Aditya Dubey, Nilay Khare, "Missing Value Imputation Using Weighted KNN and Genetic Algorithm", Lecture Notes in Networks and Systems, Springer Nature Singapore, Print 978-981-19-5223-4 Online 978-981-19-5224-1, Vol 517, 2023.
4. Ayush Soni, Akhtar Rasool, Aditya Dubey, Nilay Khare, "Visualizing Commenters Opinions Through Topic Analysis", Lecture Notes in Networks and Systems, Springer Nature Singapore, Print 978-981-19-5223-4 Online 978-981-19-5224-1, Vol 517, 2023.
5. Chiranjit Das, Aditya Dubey, Akhtar Rasool, "Outlier Detection Techniques: A Comparative Study", Lecture Notes in Electrical Engineering, Springer Singapore, Print 978-981-19-0018-1

Online 978-981-19-0019-8, Vol 869, 2022.

6. Prakhar Shrivastava, Kapil Kumar Soni, Akhtar Rasool, "Quantum Based Deep Learning Models for Pattern Recognition", Communications in Computer and Information Science, Springer International Publishing, Print 978-3-030-88377-5 Online 978-3-030-88378-2, Vol 1417, 2021.
7. Priyanka Jojan, Kapil Kumar Soni, Akhtar Rasool, "Quantum Computation-Based Secured Key Distribution Protocols", Lecture Notes in Networks and Systems, Springer Singapore, Print 978-981-15-9773-2 Online 978-981-15-9774-9, Vol 164, 2021.
8. Sunil Kumar Vishwakarma, Akhtar Rasool, Gaurav Hajela, "Machine learning algorithms for prediction of credit card defaulters — A comparative study", Lecture Notes in Networks and Systems, Springer Singapore, Print 978-981-33-4354-2 Online 978-981-33-4355-9, Vol 176, 2021.
9. Aditya Dubey, Akhtar Rasool, "Time series missing value prediction: algorithms and applications", Communications in Computer and Information Science, Springer Singapore, Print 978-981-15-9670-4 Online 978-981-15-9671-1, Vol 1170, 2020.
10. Subhra Shriti Mishra, Akhtar Rasool, "IoT Devices for Monitoring Natural Environment — A Survey", Lecture Notes in Networks and Systems, Springer Singapore, Print 978-981-15-2070-9 Online 978-981-15-2071-6, Vol 100, 2020.
11. Jose P Dumas, Kapil Soni, Akhtar Rasool, "An introduction to quantum search algorithm and its implementation", Advances in Intelligent Systems and Computing, Springer Singapore, Print 978-981-13-1401-8 Online 978-981-13-1402-5, Vol 808, 2019.
12. Manoranjan Behera, Akhtar Rasool, "Big data security threats and prevention measures in cloud and Hadoop", Advances in Intelligent Systems and Computing, Springer Singapore, Print 978-981-13-1401-8 Online 978-981-13-1402-5, Vol 808, 2019.

Detailed Bio-data