

Dr. Mamta Kathuria

#401/16, Kalra Colony, YMCAUST, Faridabad, 121102 ■ +91-7015106142 ■
mamtakathuria31@gmail.com

Experience

Total Experience: 14 years

- Currently working as Assistant Professor (CE) in J. C. Bose University of Science & Technology, YMCA, Faridabad from 14/01/2008.

Current Duties

1. Teaching course work.
2. Class Coordinator.
3. Member of Conference organized at YMCA.
4. Member of committee for NBA.

Education & Credentials

Ph.D. in Computer Engineering from J. C. Bose University of Science & Technology, YMCA, Faridabad

M.Tech Computer Engineering from YMCA University of Science & Technology, 2008.

MCA from Khalsa Institute of Technology, Affiliated to Kurukshetra University 2005.

Publications/Research work

1. A Real-Time Integrated Face Mask Detector to Curtail Spread of Coronavirus , *Computer Modeling in Engineering & Sciences*, Tech Science Press, ISSN: 1526-1492 (print) ISSN: 1526-1506 (online), **1.593(IF)**, **SCIE**
<https://www.techscience.com/CMES/v127n2/42230>
2. Face Mask Detection using Deep Learning: An Approach to Reduce Risk of Coronavirus Spread, *Journal of Biomedical Informatics*, ElseVier, ScienceDirect, **6.317(IF)**, **SCI**
<https://www.sciencedirect.com/science/article/pii/S1532046421001775>
3. Kathuria, M., Nagpal, C. K. & Duhan, N. A fuzzy logic based synonym resolution approach for automated information retrieval. *International Journal on Semantic Web and Information Systems* **14**, 92–109 (2018).
<https://doi.org/10.4018/IJSWIS.2018100105>, (SCI, UGC, SCOPUS)
4. Shelly & Kathuria, M. A novel approach to measure the semantic similarity for information retrieval. in *Communications in Computer and Information Science* **827**, 19–29 (Springer Verlag, 2018).(Book Chapter, SCOPUS indexed

5. Sentiment Analysis using Multinomial Naïve Bayes Algorithm from Covid-19 Tweets on Twitter, *Journal of Huazhong University of Science and Technology*, Huazhong Keji Daxue/Huazhong University of Science and Technology, ISSN: 1671-4512, 6.2(IF) **UGC, SCOPUS**
<https://app.box.com/s/1rjr79sjoawk34e4o2cswdf3vu8xmnt6>
6. "CREATION OF ENTITY SYNONYMS DICTIONARY AND ITS USAGE FOR QUERY REFORMULATION: A REVIEW", *International Journal of Emerging Technologies and Innovative Research* (www.jetir.org | UGC and issn Approved), ISSN:2349-5162, Vol.5, Issue 8, page no. pp1185-1190, August-2018, Available at : <http://www.jetir.org/papers/JETIRA006205.pdf>, (UGC)
7. Priyanka Dindodia, "A Survey of various Recommendation Techniques", *GIS Science Journal*, An UGC approved group II journal indexed in SCOPUS, ISSN: 1869:9391, 6th June 2020, (UGC, SCOPUS)
8. Priyanka Dindodia, "Movie Recommendation System using Collaborative Filtering and Deep Learning: a hybrid Approach, *GIS Science Journal*, An UGC approved group II journal indexed in SCOPUS, ISSN: 1869:9391, 6th June 2020, (UGC, SCOPUS)
9. Published a Paper entitled "Performance Comparison between Different Routing Protocols Using Various Parameters in Manet", in *JETIR (Journal of Emerging Technologies and Innovative Research, www.JETIR.org)* ISSN : 2349-5162, UGC Approved & 5.87 Impact Factor on April-2019., (UGC)
10. Published a Paper entitled "face recognition technique: a brief review" in *JETIR (Journal of Emerging Technologies and Innovative Research, www.JETIR.org)* ISSN : 2349-5162, UGC Approved & 5.87 Impact Factor on April-2019., (UGC)
11. Presented a paper entitled "Customer Segmentation using machine learning" in 1st Online International Conference on Rebuilding BHARAT with Artificial Intelligence Interventions after COVID-19 Pandemic : Opportunity and Challenges on May 03, 2020
12. Presented a paper entitled "Stock prediction using machine learning" in 1st Online International Conference on Rebuilding BHARAT with Artificial Intelligence Interventions after COVID-19 Pandemic : Opportunity and Challenges on May 03, 2020
13. M. Kathuria, V. Hooda, "Dimensionality Reduction using Markov Model for Web Personalisation", *International Journal of Advanced Research in Computer and Communication Engineering*, ISSN (Online) : 2278-1021, ISSN (Print) : 2319-5940, Vol. 3, Issue 6, June 2014
14. M. Kathuria, V. Hooda , "Study of Basics of Web Mining and Markov Models for Personalization", *IJRIT International Journal of Research in Information Technology*, ISSN : 2001-5569, Volume 2, Issue 2, February 2014, Pg: 159-164
15. M. Kathuria, M. Bhardwaj. "Study of basics of Web Mining and Fuzzy Clustering", *IJRIT International Journal of Research in Information Technology*, ISSN : 2001-5569, Volume 2, Issue 4, April 2014, Pg: 358-366
16. S. Gupta and M. Kathuria, "Regression Testing Using Fuzzy Logic" *International*

Journal of Computer Science and Information Technologies, March-April 2013.
(IJCSIT) International Journal of Computer Science and Information Technologies,
ISSN 0975-0946, Vol. 4 (2) , 2013, 378 - 380

17. M. Kathuria, H. Bhasin and S. Gupta, "Implementation of Regression Testing Using Fuzzy Logic", *International journal of application or innovation in engineering & management (IJAEM)*. ISSN 2319-4847, vol 2, issue 4, April 2013
18. M. Kathuria, N. Mehta, "Comparison of Conventional & Fuzzy Clustering Techniques: A Survey", *International Journal of Advanced research in Computer and Communication Engineering (IJARCCE)*, ISSN(Print):2319-5940,ISSN(Online) a. :2278-1021, Volume 2, Issue 5, May 2013.
19. M. Kathuria, N. Duhan, C.K. Nagpal, "Application of fuzzy logic in web mining domain: A survey", *International journal of advance research in IT and Engineering, IJARIE*, ISSN: 2278-6244, Vol. 1 No. 3, September 2012.
20. M. Kathuria, S.Kumar, "Fuzzy Clustering of Web Documents Using Equivalence Relations and Fuzzy Hierarchical Clustering", *IEEE International Conference*, September 2012. DOI: 10.1109/CONSEG.2012.6349496
21. M. Kathuria, "Nanotechnology in Computer Science: A Survey", *Symposium on Nanotechnology: Interdisciplinary Aspects*, Dec 2012.
22. M. Kathuria, "Architecture of Hidden Web Crawler Based Search Engine by Identifying Optimal Query from User Intent", *International Conference of the International Academy of Physical Sciences*, June 14-16, 2011.
23. Mamta Kathuria, Anurahda Singh, C. K. Nagpal, Neelam Duhan, "Discovery of Entity Synonym Using Anchor Text and URLs", *International Journal of Future Generation Communication and Networking*, Vol. 10, No. 11 (2017), pp.19-36, <http://dx.doi.org/10.14257/ijfgcn.2017.10.11.03>, ISSN **2233-7857**, **September 20,2017**
24. Vrinda, Mamta Kathuria, Amita Arora, "Enhancement of E-commerce System Security: A Review", *International Journal of Innovations & Advancement in Computer Science IJIACS* ISSN 2347 – 8616 Volume 6, Issue 12 December 2017.
25. Ms Sonam, Mamta Kathuria, "Semantic Similarity between Two Documents: A Topic map Approach", *Journal of Data Mining and Management*, Vol 2, No 3 (2017)
26. Anju Kundu and Mamta Kathuria, "Semantic similarity between documents using tree view ontology," *International Research Journal of Advanced Engineering and Science*, Volume 2, Issue 2, pp. 323-326, 2017.

27. M. Kathuria, C.K. Nagpal, N. Duhan, "A Journey of Web Search Engines: Milestones, Challenges & Innovations", *I.J. Information Technology and Computer Science*, MECS Publisher 2016, ISSN: 2074-9015
28. Mamta Kathuria , Amita Arora , Payal Batra," Retrieving Information Using Fuzzy Queries", *Shiv Rudraksha International Journal Of Advanced Research in Engineering & Management (SRIJAREM)*, Vol. 01, Issue 06, May 2016
29. M. Kathuria, V. Hooda, "Dimensionality Reduction using Markov Model for Web Personalisation", *International Journal of Advanced Research in Computer and Communication Engineering*, ISSN (Online) : 2278-1021, ISSN (Print) : 2319-5940, Vol. 3, Issue 6, June 2014
30. M. Kathuria, V. Hooda , "Study of Basics of Web Mining and Markov Models for Personalization", *IJRIT International Journal of Research in Information Technology*, ISSN : 2001-5569, Volume 2, Issue 2, February 2014,Pg: 159-164
31. Meenakshi Bhardwaj and Mamta Kathuria, "Study of basics of Web Mining and Fuzzy Clustering", *IJRIT International Journal of Research in Information Technology*, Volume 2, Issue 4, April 2014, Pg: 358- 366
32. S. Gupta and M. Kathuria, "Regression Testing Using Fuzzy Logic" *International Journal of Computer Science and Information Technologies*, March-April 2013. (IJCSIT) *International Journal of Computer Science and Information Technologies*, ISSN 0975-0946, Vol. 4 (2) , 2013, 378 - 380
33. M. Kathuria, H. Bhasin and S. Gupta, "Implementation of Regression Testing Using Fuzzy Logic", *International journal of application or innovation in engineering & management (IJAIEM)*. ISSN 2319-4847, vol 2, issue 4, April 2013
34. M. Kathuria, N. Mehta, "Comparison of Conventional & Fuzzy Clustering Techniques: A Survey", *International Journal of Advanced research in Computer and Communication Engineering (IJARCCE)*, ISSN(Print):2319-5940, ISSN(Online) :2278-1021, Volume 2, Issue 5, May 2013.

International Conference

1. Shelly Gupta, Mamta Kathuria, "A Novel Approach to Measure the Semantic Similarity for Information Retrieval ", 3rd International Conference on "Next Generation Computing Technologies" (NGCT-2017) 30th and 31st October,2017 AT School of Computer Science & Engineering, University of Petroleum & Energy Studies, Bidholi Campus, Via- Prem Nagar, Dehradun, Uttarakhand (INDIA) - 248 007
2. M. Kathuria, Payal, C.K. Nagpal, N. Duhan, "Semantic Similarity between Terms for Query Suggestion",2016 5th International Conference on Reliability, Infocom Technologies and Optimization(ICRITO), pages 245-250, DOI: 10.1109/ICRITO.2016.7784959, IEEE Conference Publications
3. M. Kathuria, C.K. Nagpal, N. Duhan, "A Survey of Semantic Similarity Measuring Techniques for Information Retrieval, *International Conference on "Computing for*

Sustainable Global Development”, 16th – 18th March, 2016, INSPEC Accession Number: 16426234, Electronic ISBN: 978-9-3805-4421-2

4. Mamta Kathuria and Anju Kundu, “Ontology Based Search Engine : An Overview”, International conference on sustainable development through research in Engineering & Management, (SDREM-16), December 26-27, 2016

National Conference

1. Mamta Kathuria, Shelly Gupta, “Drone: An Emerging Technology”, *National Conference on Role of Science and Technology towards Make in India*, 5-7 march 2016.
2. Mamta Kathuria, Payal Batra, “Hadoop : A review on the approach to solve big data problem”, *National Conference on Role of Science and Technology towards Make in India*, 5-7 march 2016.
3. Amita Arora, Mamta Kathuria,” A Novel hybrid approach for Extracting Relation from plain text”, *National Conference on Role of Science and Technology towards Make in India*, 5-7 march 2016.
4. Ajay Singh Chauhan, Mamta Kathuria, “DATA MINING TECHNIQUES IN AGRICULTURE: A SURVEY PAPER”, *The National Conference on New Horizon in Technology for Sustainable Energy and Environment*, YMCA University of Science & Technology, Faridabad, March 2017.

Book Chapter

1. Shelly & Kathuria, M. A novel approach to measure the semantic similarity for information retrieval. in *Communications in Computer and Information Science* **827**, 19–29 (Springer Verlag, 2018).(Book Chapter, scopus indexed)
(SCOPUS)
2. Mamta Kathuria, “Fuzzy logic based synonym resolution approach” *Natural Language Processing: Concepts, Methodologies, Tools, and Applications*, Noted as an IGI Global Core Reference Title in Computer Science & IT for 2019.
Information Resources Management Association (USA)

Organiser /Coordinators for

1. Session Coordinator in 8th International symposium of fusion of science & Technology organized by J.C.Bose university of Science & Technology from 06/01/2020 to 10/01/2020
2. Attended a workshop on NPTEL jointly organized by NPTEL IIT, Madras and J.C.Bose university of Science & Technology on 31/01/2020
3. Participated in STTP (Graphics & Animation for Instructional Material Development) in computer Applications department from 11/2/2019 to 15/02/2019

4. Attended one week online FDP on “Research in Modern Era” Conducted by Mechanical Engineering Department, J.C.Bose university of Science & Technology from 01/06/2020 to 05/06/2020
5. Organize an STTP (Graphics & Animation for Instructional Material Development) in computer Applications department from 11/2/2019 to 15/02/2019
6. Attended one week FDP on “Data Analytics using R” Conducted by Computer Engineering & Computer Applications Department, J.C.Bose university of Science & Technology from 11/07/2020 to 15/07/2020
7. Organized one week FDP on “Data Analytics using R” Conducted by Computer Engineering & Computer Applications Department, J.C.Bose university of Science & Technology from 11/07/2020 to 15/07/2020
8. Attended one week FDP on “Data Analytics and Big Data Analytics” Conducted by Computer Engineering Department, J.C.Bose university of Science & Technology from 28/08/2018 to 01/09/2018
9. Session Coordinator in 8th International symposium of fusion of science & Technology organized by J.C.Bose university of Science & Technology from 06/01/2020 to 10/01/2020
10. Attended a workshop on NPTEL jointly organized by NPTEL IIT, Madras and J.C.Bose university of Science & Technology on 31/01/2020
11. Participated in STTP (Graphics & Animation for Instructional Material Development) in computer Applications department from 11/2/2019 to 15/02/2019
12. Attended one week online FDP on “Research in Modern Era” Conducted by Mechanical Engineering Department, J.C.Bose university of Science & Technology from 01/06/2020 to 05/06/2020
13. Organize an STTP (Graphics & Animation for Instructional Material Development) in computer Applications department from 11/2/2019 to 15/02/2019
14. DeitY Sponsored Workshop on “Protecting and Exploring IPR’s” from 19th to 20th October 2015 at YMCA University of Science and Technology, Faridabad
15. Organizer of "Faculty Development Programme on Teaching Skills Enhancement" from 6-01-2014 to 10-01-2014(1 week) conducted by YMCA UST, Faridabad.
16. CBS Coordinator.
17. TPO Coordinator
18. NAAC Coordinator
19. FeedBack Coordinator
20. IQAC Coordinator
21. IEEE Coordinator

M.Tech Thesis Guided

S. No	Name of the Student	Topic for M.Tech Dissertation	Roll_No
1.	Bhawna Verma	Flower Species Prediction using Machine Learning	19001502011(July 2021)
2.	Anjali Saini	Crack Classification Using Machine Learning	19001502001(July 2021)
3.	Manisha	Sentiment Analysis using Multinomial Naïve Bayes Algorithm	18001503006(May 2020)
4.	Priyanka	Movie Recommendation System using Collaborative Filtering and Deep Learning	18001503012(May 2020)
5.	Indu Dixit	Face Recognition Technique	MNW-044-2K17(may 2019)
6.	Pinki	Performance Comparison between Different Routing Protocols Using Various Parameters in Manet	MNW-049-2K17(may 2019)
7.	Veenu	Clustering using Optimization Algorithms	MCE-793-2K16(may 2018)
8.	Vrinda Sachdeva	Enhancement of E-Commerce System Security	MCE-796-2K16(may 2018)
9.	Akhil Kumar Sharma	Significance of Artificial Intelligence using automation Mechanish	170015504001 Affiliated college thesis evaluated
10.	Neha Sharma	Machine Learning Techniques for Android Malware Detection and Categorization	17038504018(Affiliated college thesis evaluated)
11.	Indu Dixit		17 batch
12.	Pinki		17 batch
13.	Vrinda Sachdeva	ENHANCEMENT OF E-COMMERCE SYSTEM SECURITY	MCE-796-2K16

14.	Veenu Verma	Particle Swarm Optimization	
15.	Anuradha Singh	Discovery of Entity Synonym	MCE-624-2k15
16.	Anju Rani	Semantic Similarity Between Documents Using Ontology Tree View	MCE-621-2K15
17.	Sonam	Semantic Similarity Between Two Documents Based On Topic maps	MNW-656-2K15
18.	Ajay Singh Chauhan	Agriculture Price Forecasting Using Time Series Algorithm	MIT-602-2K15
19.	Shelly Gupta	A Novel Approach to Measure the Semantic Similarity for Relevant Information Retrieval	MIT-416-2K14
20.	Payal Batra	Semantic similarity between terms for query suggestion	MIT-411-2K14
21.	Shailza Gupta	Regression Testing using Fuzzy Logic	MCE-421-13
22.	Amrita	Map Reduce design and implementation of parallel Apriorialgo'm on Hadoop Cluster	MNW-241-2K13
23.	Sangeeta	Recommender system using Collaborative filtering algorithm	MIT-215-2k13
24.	Varun Hooda	Dimensionality Reduction Using Markov Models In Web Mining	MNW-58-2K12
25.	Meenakshi Bhardwaj	Hybridization of Probabilistic C-Means Clusterig (Pcm) and Fuzzy C-Means Clustering (Fcm) for Web Personalization	MNW-48-2K12
26.	Amit Kumar	Fuzzy C Means-Clustering with Outliers Handling	MIT-860-2K11
27.	Taiseem Ahmed	A Secure and Scalable Quantum Key Distribution Network Architecture	MNW-895-2K11

28.	Monika Rani	Optimize Space Search Using FCC_STF Algorithm In Fuzzy Co-Clustering Through Search Engine	2012
29.	Satendra Kumar	Fuzzy clustering of web documents using equivalence relations and fuzzy hierarchical clustering	2012
30.	Amit Kumar	Fuzzy C Means-Clustering with Outliers Handling	2013
31.	Shailza	Regressing Testing using Fuzzy Logic	2013
32.	Priyanka	Retrieving Information using Fuzzy Queries	2014
33.	Meenakshi Bhardwaj	Hybridization of Probabilistic C-Means Clustering (PCM) and Fuzzy C-Means Clustering(FCM) for Web Personalization	2014
34.	Varun Hooda	Dimensionality Reduction in Markov Model for Web Personalization	2014

Personal Details

Date of birth : 06 December 1980
Sex : Female
Marital Status : Married