

Faculty Profile

Name : Jyoti Khurana
Designation : Assistant Professor
Qualifications : Pursuing PhD (IT), MTech (IT), BTech (CSE)
Phone : 9718503004
Email : jyotiarora@msit.in
Area of Interest/Specialization: Data Mining, Clustering, Classification, Image Segmentation
Experience : 14 years



Key Publications

1. J. Arora, M. Tushir "A new Semi-Supervised Intuitionistic Fuzzy C-means Clustering." EAI Endorsed Transactions on Scalable Information Systems 7.24 (2019).(ESCI)
2. J. Arora, M. Tushir and R. Kashyap. "Improving Semi-Supervised Classification using Clustering." EAI Endorsed Transactions on Scalable Information Systems 7, no. 25 (2019).(ESCI)
3. J. Arora, M.Tushir "Intuitionistic Level Set Segmentation for Medical Image Segmentation ", Recent Patents on Computer Science. vol. 12, no. 1, pp. 1-8, 2019.(Scopus)
4. J. Arora, M.Tushir, "Robust spatial intuitionistic fuzzy C-means with city-block distance clustering for image segmentation." Journal of Intelligence and Fuzzy systems, vol. 35, pp. 5255-5264, 2018. (SCIE)
5. J. Arora, M.Tushir "A new kernel-based possibilistic intuitionistic fuzzy c-means clustering", International Journal of Artificial Intelligence and Soft Computing, vol. 6, no. 4, pp. 306-325, 2018.(ACM Digital Library)
6. J. Arora, M.Tushir, "Performance Analysis of Fuzzy C-means, Mountain Clustering and Subtractive Clustering Techniques." Journal of Multi Disciplinary Engineering Technology, vol. 14(1), pp. 114-122, 2020. (Google Scholar)
7. J. Khurana, A.Ashri, "COVID-19 India Outbreak Trend Analysis and Predictions using Multi Time Series Models." International Journal of Computer Applications (0975 – 8887), Volume 174 – No. 22, February 2021. (Google Scholar)

8. J. Khurana, V. Aggarwal, H. Singh, "A Comparative Study of Deep Learning Models for Network Intrusion Detection." *International Journal of Computer Applications* (0975 – 8887), Volume 174 – No. 23, March 2021. (Google Scholar)
9. J. Arora, M. Mahajan, M. Grover, S. Rout, "Comparative Analysis of Generative Adversarial Networks." *JIMS 8i- International Journal of Information, Communication and Computing Technology (IJICCT)*, 2021. (Google Scholar)
10. J. Arora, M. Grover, K. Aggarwal, "Augmented Reality Model for the Virtualisation of the Mask." *Journal of Multi Disciplinary Engineering Technology*, Volume 14(2), 2021. (Google Scholar)
11. D. Agarwal, P.Nagrath, J. Arora, "Game Theory and its applications in Cyber Security." *Journal of Multi Disciplinary Engineering Technology*, 2021. (Google Scholar)
12. J. Arora et. al., "Study of Methods of Noise Reduction in Fuzzy Based Image Segmentation." *SATYAM, MSIT*, Vol. 4, 2016.
13. J. Khurana et. al., "Target Selection of Customers for Telecom Service Providers Using K-Means Clustering and Backpropagation Artificial Neural Network." Vol. 2(1), 2013.

Papers presented in Conferences

1. J. Arora, M. Tushir "Hybrid KFCM-PSO Clustering Technique for Image Segmentation", *Proceedings of International Conference on Artificial Intelligence and Applications. Advances in Intelligent Systems and Computing*, vol 1164, 2021.
2. J. Arora, M. Tushir "Performance Analysis of Different Kernel Functions for MRI Image Segmentation", *Proceedings of International Conference on Artificial Intelligence and Applications. Advances in Intelligent Systems and Computing*, vol 1164, 2021.
3. J. Arora, M. Tushir "An Enhanced Spatial Intuitionistic Fuzzy C-means Clustering for Image Segmentation", *Procedia Computer Science* , 167,646–655, 2020.
4. J. Arora, V. Ailavajhala, S. Sengar and M. Sharma "Hybrid FCM PSO Algorithm with Cityblock Distance" *The 3rd, 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New-Delhi, India.*(16th – 18th March, 2016).
5. J. Arora, K. Khatter and M. Tushir " Fuzzy c-means clustering strategies: A Review of Distance Measure" *The 2015, CSI-50th Golden Jubilee Annual Convention on Digital Life* , to be published by Springer under AISC Series, ISI and Scopus. (2nd – 5th December, 2015)

6. J. Arora, K. Khatter and M. Tushir, “ Performance Assessment for Clustering Techniques for Image Segmentation” The 2015, CSI-50th Golden Jubilee Annual Convention on Digital Life to be published by Springer under AISC Series, ISI and Scopus. (2nd – 5th December, 2015)
7. J. Arora and N. Rajpal “Surmounting the Effect of JPEG Compression on Image Stegnography” The 2009 National Conference on Emerging Trends in Software and Networking Technologies, , Amity University, Uttar Pradesh (17th -18th April, 2009)
8. J. Arora, “ Analysis of Watermarking Techniques”, The 3rd, 2009 National Conference on Computing for Nation Development INDIA Com-2009, BVICAM, New- Delhi. (26th -27th February, 2009)

Patent/Copyright

1. Prof. Poonam Bansal, Prof. Meena Tushir, Ms. Shefali Dhingra, Ms. Sonia Goel, Ms. Jyoti Arora, Ms. Pooja Kherwa patent titled Web application based Intelligent & Secured Image Retrieval Model published on 5 March, 2021 with application no. 202111008414.

Awards and Recognitions

1. Received Research Excellence Award for paper publication in SCIE in year 2018.
2. Received Letter of Appreciation from Department of Information Technology for organizing expert lecture on “Power of Positive Thinking” on 13th June, 2021.

Faculty Development Programme Attended

1. Attended One-Week Short Term Course on “ Basics and Applications of Matlab” in DCRUST, Murthal. (22nd -26th February 2010)
2. Attended IBM Training for “Object Oriented analysis and design using UML with fundamentals of Rational Rose” in software testing in M.S.I.T College 2011.
3. Attended Faculty Development Programmed on “ANDROID” 11 to 12 Sept 2012 at MSIT. New Delhi
4. Attended 2 days workshop on “Research Method and Data Analysis using SPSS tool” Nov 2012 in M.S.I.T.
5. Attended Faculty Development Programmed on “Human Values and Professional Ethics “ 4 feb 2012 in M.S.I.T.

6. Attended Faculty Development Programmed on "Web Usage Mining" in May 2013.
7. Attended Faculty Workshop Programmed on "Cloud Computing and Its Components" 30th-31st October 2013 Organized By MSIT
8. Attended 2 days workshop on "Implementation of Sensor Networks using NS2" Apr 2014 in M.S.I.T.
9. Attended 2 days workshop on "Implementation of BigData & Hadoop" 31st Oct & 1st Nov 2012 in M.S.I.T.
10. Attended One week Faculty Development Programmed on "Emerging Trends in Information Technology" 29th Feb – 4th Mar 2016 in M.S.I.T.
11. Attended One week Faculty Development Programmed on "Wireless Networks through ICT." 22nd May – 26th May 2017 in M.S.I.T.
12. Attended One week Faculty Development Programmed on "Matlab and SCI Lab Through ICT" 18th Sept. – 22nd Sept 2017 in NITTTR, M.S.I.T.
13. Attended One week Faculty Development Programmed on "Modeling and Simulation using MATLAB through ICT" 21st May – 25th May 2018 in NITTTR, M.S.I.T.
14. Attended One week Faculty Development Programmed on "Classroom Communication through ICT" 28th May – 1st June 2018 in NITTTR, M.S.I.T.
15. Attended One week Faculty Development Programmed on "Data Science Using R" 26th May – 30th Nov 2018 in NITTTR, M.S.I.T.
16. Attended One week Faculty Development Programmed on "Open Source Technologies" 3rd Dec- 7th Dec 2018 in NITTTR, M.S.I.T.
17. Attended One week Faculty Development Programmed on "Contemporary Issues and Challenges in Management, Education and Information Technology" 5th Feb- 9th Feb 2019 in NITTTR, M.S.I.T.
18. Attended One week Faculty Development Programmed on "Faculty Development: Planning and Management for Institutional Excellence" 18th Nov- 22nd Nov 2019 in NITTTR, M.S.I.T.
19. Attended One week Faculty Development Programmed on "Machine Learning using Python" 2nd Mar-6th Mar 2020 in M.S.I.T.
20. Attended One week Online Lecture Series on "Cognitive Computing" 12th June- 16th June 2020 in Gautam Buddha University.

21. Attended One week Faculty Development Programmed on “Data Science & Learning Systems for Engineering Research & Design” 20th June – 30th June 2020 in National Institute of Technology, Kurukshetra and Engineering College of Bikaner, Bikaner.
22. Attended two week Faculty Development Programmed on “Research Methodology” 6th July to 18th July 2020 in National Institute of Technology, Gautam Buddha University.
23. Attended two week Faculty Development Programmed on “ICT Tools for Teaching, Learning Process and Institute” 10th Aug to 21st Aug 2020 in MNIT, Jaipur.
24. Attended One week FDP on “Data Analysis Using Python” 28th Dec- 1st Jan 2021 in MSIT.
25. Attended One week FDP on “Recent Advancement and Challenges in IT” 8th Mar- 12th Mar 2021 in MSIT.
26. Attended One week FDP on “Use of ICT in Engineering Education” 15th Mar- 20th Mar 2021 in MSIT.
27. Attended One week FDP on “Inculcating Universal Human Values in Technical Education ” 2nd Aug- 6th Aug 2021 in MSIT.

Responsibilities

1. Summer Training Incharge
2. Worked as ISO Incharge
3. Served as Project Coordinator
4. Presently Member of Time-Table Committee
5. Served as a member of Exam Cell Committee
6. Served as a member of Alumni Cell
7. Presently working as a member of NBA Team

Certification

I certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.

Jyoti Khurana

04-10-2021