

Faculty Profile

Name : Dr Meena Tushir
Designation : Professor
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Area of Interest/Specialization: Artificial Intelligence, pattern Recognition, Fuzzy Systems

Experience : 25 years

Key Publications

1. **Meena Tushir** and Smriti Srivastava, "A New Kernelized hybrid *c*-means clustering model with optimized parameters," *J. Applied Soft computing*), Vol. 10(2), pp. 381-389, March 2010
2. **Meena Tushir**, Smriti Srivastava and Yogendra Arya, "Application of Hybrid Fuzzy PID Controller for Three Area Power System with Generation Rate Constraint" *Int. J. Energy Technology and Policy*, Vol. 8 (2), 159-173, 2012.
3. **Meena Tushir** and Smriti Srivastava, "Exploring different kernel functions for kernel based clustering", *Int. J. Artificial Intelligence and Soft Computing*, Vol.5 (3), pp. 177 – 193, 2016.
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.
5. Sonia Goel and **M. Tushir**, "Different Approaches for Missing Data Handling in Fuzzy Clustering: A Review", *Recent Advances in Electrical & Electronic Engineering* Vol. 13: 833, 2020
6. Sonia Goel and **M. Tushir** (2020) A new iterative fuzzy clustering approach for incomplete data, *Journal of Statistics and Management Systems*, Vol. 23(1), pp.91-102, 2020.
7. Goel, Sonia and **Tushir, Meena**. 'A New Semi-supervised Clustering for Incomplete Data'. *Journal of Intelligence and Fuzzy systems*, Jan. 2021, 1 – 13.

Papers presented in Conferences

1. **Meena Tushir** and Smriti Srivastava, "A new kernel based hybrid *c*-means clustering model," in *Proc. of IEEE Intl. Conf. on fuzzy systems (IEEE-FUZZ)*, pp. 1-5, 23-26 July, 2007, London, U.K.

2. **Meena Tushir** and Smriti Srivastava, “A novel clustering method for fuzzy model identification” in *Proc. of IEEE region 10 Intl. Conference. TENCON’2009*, pp (1-5), 23-26 Jan, 2009, Singapore..
3. **Meena Tushir** and Smriti Srivastava, “ Performance Assessment of Kernel based Clustering” in *Computational Intelligence, Cyber security and Computational Models, Advances in Intelligent Systems and Computing*, Springer India, Vol. 246, pp-139-145, 2013.
4. Jyotsana Arora, **Meena Tushir**, “A New Log based Possibilistics Clustering”, *CSI-2015; 50th Global Jubilee Annual Convention on “Digital Life*, Dec 2-5, 2015, New Delhi.
5. Sonia Goel and **Meena Tushir**, “A Semi-supervised Clustering for Incomplete Data,” in *Proc. of International Conference on Signals, Machines and Automation (SIGMA-2018)*, NSIT , New Delhi
6. J. Arora, K. Khatter, and **M. Tushir** "Fuzzy C-means clustering strategies: a review of distance measures." In *Software Engineering*, pp. 153-162. Springer, Singapore, 2019.
7. J. Arora, K. Khatter, and **M. Tushir** "Performance assessment for clustering techniques for image segmentation." In *Sensors and Image Processing*, pp. 121-129. Springer, Singapore, 2018.
8. J. Arora, **M. Tushir** “An Enhanced Spatial Intuitionistic Fuzzy C-means Clustering for Image Segmentation”, *Procedia Computer Science* , 167,646–655, 2020.
9. J. Arora, **M. Tushir** “Hybrid KFCM-PSO Clustering Technique for Image Segmentation”, *Proc. of International Conference on Artificial Intelligence and Applications. Advances in Intelligent Systems and Computing*, vol 1164, 2021.
10. J. Arora, **M. Tushir** “Performance Analysis of Different Kernel Functions for MRI Image Segmentation”, *Proc. of International Conference on Artificial Intelligence and Applications. Advances in Intelligent Systems and Computing*, vol 1164, 2021.
11. Goel S., **Tushir M.** “Linear Interpolation-Based Fuzzy Clustering Approach for Missing Data Handling” In: Hura G., Singh A., Siong Hoe L. (eds) *Advances in Communication and Computational Technology. Lecture Notes in Electrical Engineering*, vol 668. Springer, Singapore, 2021.

Awards and Recognitions/Responsibilities

1. Received a grant of Rs. 85,000/- from AICTE under travel grant scheme to present a paper in *IEEE International Conference on Fuzzy Systems (IEEE-FUZZ 2007)* held on 23-26 July, 2007, London, U.K
2. **Convener** of Annual Technical Festival “Avensis 2011” held on 24-25th March 2011 at MSIT.
3. **Convener** of Faculty Development Programme on “**Intelligent tools for various Engineering Applications**”, held on 12th - 13th April 2012 at MSIT.
4. **Coordinator** of inter college ISTE approved Short term Training programme on “Speech and Image Processing” held on 17-21st Dec 2012 at MSIT.
5. **Convener** of Faculty Development Programme on “Research Challenges & Emerging Trends in Electrical Engineering”, held on **25th February**, 2015 at MSIT.
6. **Convener** of one-week Faculty Development Programme on “Artificial Neural Networks”, **organized by NITTTR** held on **25th -29th April**, 2016 at MSIT.
7. **Convener** GGSIPU Academic audit (2017-2018)
8. **Teacher’s Representative, Governing Body (MSIT) (2018-2019)**
9. **Member** Internal Complaint committee (MSIT) since 2016 onwards
10. **Presiding Officer**, Internal Complaint committee (MSI) since Dec’ 2019 onwards
11. **Co-Convener** of ICAIA International conference on Artificial Intelligence and its Applications held on 6th -7th March 2020 at MSIT New Delhi.
12. **Convener**, Technical Programme Committee, ADMET-2021 National Conference going to be held 5-6th March 2021.

Ph.D Supervised: 03