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Area of Specialization: Machine learning, Data analytics, Deep learning,
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Publications:

1. Anto Rosaline, Parvathi.R,"PERFORMANCE ANALYSIS OF VARIOUS TEXT CLASSIFICATION ALGORITHMS",International Journal of Pure and Applied Mathematics,Volume: 101, Issue: 5,Aug, 2015,Page Nos: 625-634.
2. .RekhaJ.H , Parvathi R. ,"Survey on Software Project Risks and Big Data Analytics", Procedia Computer Science 50 (2015) 295 – 300.
3. Anto Rosaline, Parvathi.R"Mood Based Recommendation System in Social Media Using PSV Algorithm", Smart Innovation, Systems and Technologies, Volume: 49, Issue: 0, Feb, 2016, Page Nos:345-352
4. BangaraKamatchi, Parvathi.R"Call Log Analysis Using Different Clustering Approach", International Journal of Engineering Science and Computing, Volume: 6, Issue: 6,June,2016, Page Nos:6952 – 6954.
5. R.Vinodha and R.Parvathi " Location Based Travelling Recommendation System Using Hypertext Induced Topic Search(HITS)", International Journal of Pure and Applied Mathematics Volume 109 No. 9 2016, 248– 256.
6. VIGNESH U, PARVATHI R." CLUSTERING ON STRUCTURED PROTEINS WITH FILTERING INSTANCES ON BIOWEKA"Journal of Engineering Science and Technology,Vol. 12, No. 3 (2017) 820 – 833.
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9. BangaraKamatchi, Parvathi.R" Feature selection and yield prediction of rice crop using Ann"
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10. Anto Rosaline, Parvathi.R ,"Sensing the mood on crimes against women by exploring social media using dimensional model" , International Journal of Engineering and Technology(UAE), 7 (2.20) (2018) 344-348
11. Monika.M,Parvathi.R"Correlation analysis of community detection in social network of big data methodical using set theorem ",International Journal of Engineering and Technology(UAE), 7 (2.21) (2018) 398-401

12. Vignesh .U ,Parvathi.R ,”3D visualization and cluster analysis of unstructured protein sequences using ARCSA with a file conversion approach”, The Journal of Supercomputing,2018,<https://doi.org/10.1007/s11227-018-2319-4>.
13. Dharini Ramachandran, Parvathi Ramasubramanian, (2018) "Event detection from Twitter – a survey", International Journal of Web Information Systems, Vol. 14 Issue: 3, pp.262-280, <https://doi.org/10.1108/IJWIS-11-2017-0075>.
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15. **Parvathi, R.**, Aravind, J.Classification based credibility analysis on twitter data , International Journal of Recent Technology and Engineering, ISSN: 2277-3878, Volume-8 Issue-3, September 2019
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16. Vinodha, R., **Parvathi, R.**Election result prediction using spatial statistical method, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-2S6, July 2019
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17. Monica, K.M., **Parvathi, R.**,Traditional dimensionality reduction techniques using deep learning, International Journal of Recent Technology and Engineering , ISSN: 2277-3878, Volume-8 Issue-3, September 2019
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26. S.BangaruKamatchi and R.Parvathi, Analysis of Timeseries Forecasting Models Using TamilNadu Environmental Weather Data, *Journal of Green Engineering (JGE)* Volume-10, Issue-3, 1208-1217. <http://www.jgenng.com/volume10-issue3.php>
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<https://link.springer.com/article/10.1007/s13369-020-04928-2>

Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1	Book Chapter entitled "A Review On Spatial Big Data Analytics And Visualization" published in "Modern Technologies for Big Data Classification and Clustering" ISSN/ISBN Nos: 9781522528050, Page Nos: 179-197	Parvathi.R&BangaruKamatchi	IGI Global	2017
2	Book Chapter entitled "Biological Big Data Analysis and Visualization"	Parvathi.R&U.Vignesh	IGI	2017

	published in “Modern Technologies for Big Data Classification and Clustering””ISSN/ISBN Nos: 9781522528050 Page Nos: 244-259		Global	
3	Automation of Assets Estimation for Accurate Tax Optimization Through Web Based Spatial Data Mining Techniques In Recent Advances in Computational Intelligence [pp 215-232] Online ISBN978-3-030-12500-4 DOI https://doi.org/10.1007/978-3-030-12500-4_14	Pattabiraman V., Parvathi R	Springer	2019
4	A Similarity-Based Object Classification Using Deep Neural Networks in Handbook of Research on Deep Learning Innovations and Trends DOI: 10.4018/978-1-5225-7862-8.ch012	Parvathi R. &Pattabiraman V	IGI Global	2019
	Dimensionality Reduction With Multi-Fold Deep Denoising Autoencoder Source Title: Deep Learning Techniques and Optimization Strategies in Big Data Analytics ISBN13: 9781799811923 ISBN10: 1799811921 ISBN13 Softcover: 9781799811930 EISBN13: 9781799811947 DOI: 10.4018/978-1-7998-1192-3.ch010	Pattabiraman V. (Vellore Institute of Technology, Chennai, India) and Parvathi R. (Vellore Institute of Technology, Chennai, India)	IGI Global	2019
5	Research Innovations and Trends on Computer Vision and Recognition Systems, Image Synthesis with Generative Adversarial Networks (GAN)	<i>R. Parvathi and V. Pattabiraman</i>	Apple Academic Press	2020
6.	Ch. 4: Advanced Deep Learning Applications in Big Data Analytics Deep Learning for Social Media Text	AntoArockia Rosaline R, Parvathi R.	IGI Global	September 2020

	Analytics (050819-015036)			
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Patent Published:

1. Patent Number : 202041025652

Title : REPEATED PATTERN FINDING USING FIRST BASE FIRST RUNNER CLUSTER SEQUENCE FINDER ALGORITHM AND PROTEIN STRUCTURE PREDICTION ON ENVIRONMENTAL SAMPLES

2. Patent Number : 202041057022

Title : GAIT ANALYSIS USING MULTI MODAL SENSOR

Received a Research Award from Vellore Institute of Technology, Chennai during the academic Year 2017-18