



Dr. Rambabu Pemula

Associate Professor

Department

Computer Science & Engineering

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Academic Background

Ph.D (Computer Science & Engineering) – JNTUK, Kakinada

M.Tech (Software Engineering) – VNRVJIET, Hyderabad, Affiliated to JNTU Hyderabad

B.Tech (Computer Science & Engineering) – Jayaprakash Narayan College of Engineering, Affiliated to JNTU Hyderabad.

Dr. Rambabu Pemula is currently working as Associate Professor in the Department of Computer Science and Engineering, RAGHU Engineering College, Visakhapatnam, Andhra Pradesh. He has 13 years of teaching experience. He received his B.Tech Degree in Computer Science and Engineering from J.N.T.U, Hyderabad and M.Tech Degree in Software Engineering from J.N.T.U, Hyderabad and Ph.D in the area of Digital Image Processing in the Department of Computer Science and Engineering from J.N.T.University Kakinada. He qualified in GATE 2005 and GATE 2012 in Computer Science and

Engineering. He also qualified UGC NET and AP SET in Computer Science and Applications. He published papers in SCI Indexed, Scopus Indexed and UGC referred journals. He participated and presented research papers at different International and National conferences. He participated in workshops and FDP's which were organized by IIT's, NIT's, IIIT's, BITS, VIT, and other reputed organizations throughout India. He is member of various professional societies like IEEE, ACM and ISTE.

Research Interests:

Image Processing, Machine Learning, Deep Learning, Computer Vision

Achievements:

Publications:

1. Pemula, R., Naga Raju, C. "Hash based manifold learning technique to generating random fields for image segmentation." Cluster Computing 22, 14877–14888 (2019). <https://doi.org/10.1007/s10586-018-2433-3> (SCI Indexed Journal, Scopus Indexed) (Springer Publications).
2. Rambabu Pemula, C. Naga Raju, "Generation of Random Fields for Image Segmentation using Manifold Learning Technique" International Journal of Pattern Recognition and Artificial Intelligence, (2016) <https://doi.org/10.1142/s0218001416540070> (SCI Indexed Journal, SCOPUS Indexed).
3. P.Rambabu, C. NagaRaju, "Generation of Random Fields for Object Recognition using Binarization Technique", International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 4, Issue 5(2), September - October 2015, ISSN 2278-6856 (UGC Referred Journal).
4. P.Rambabu, et al., "A New Digital Encryption Scheme: Sub areas Exchange Encryption Approach" International Journal of Emerging

Trends in Science and Technology IJETST, Vol.2, Issue 2 Pages 1829-1835, February 2015, ISSN 2348-9480.

5. P.Rambabu, C. Naga Raju "The Optimal Thresholding Technique for Image Segmentation Using Fuzzy Otsu Method" International Journal of Applied Engineering Research, Vol.10, Issue 13, 2015, Pages: 33842-33846 (SCOPUS Indexed, UGC Referred Journal, ICI)

6. Rambabu Pemula, et.al, "Intelligent Model to Classify Cashew Kernels" International Journal of Engineering and Innovative Technology (IJEIT), Volume 2, Issue 6, December 2012. ISSN: 2277-3754

7. Rambabu P, et al., "Query Optimization Using the Technique of Progressive Parametric" International Journal of Electronics Communication and Computer Engineering Volume 3, Issue (1) NCRTCST, ISSN 2249 -071X

8. Rambabu Pemula, et al., "Identifying Popular Items by Analysing Randomized Algorithms" has been published in International Journal of Computer Applications in Engineering Science, vol I, issue IV, December 2011 ISSN: 2231-4946

9. Rambabu Pemula, et al., "Supervised Learning – A Study on Mining with Unbalanced Dataset", International Journal of Multidisciplinary Sciences and Engineering, Vol 2, No. 8, November 2011, ISSN: 2045-7057

10. Rambabu Pemula, et al., "Framework to Measure and Maintain the Quality of Software using the Concept of Code Readability", has been published in International Journal of Computer Technology and Applications, Vol 2(5), Sept-Oct 2011, ISSN: 2229-6093.

11. Rambabu Pemula, et al., "Implementation of FS-DT Algorithm to Enhance the Performance of Decision Tree" has been published in

International Journal of Engineering Research and Applications (IJERA), Vol. 1 Issue 4, ISSN: 2248-9622.

12. Rambabu Pemula, et al., "Data Retrieval and Gaining Optimistic Nepotism Samples" International Journal of Information and Communication Technology Research. Volume 1 No. 3, July 2011 ISSN-2223-4985.pp 109-112.

Conferences:

International:

1. Presented a paper on "Juvenile Crime Categorization with EM Clustering" in International Conference on Intelligent Systems & Sustainable Computing (ICISSC-2021)" organized by Malla Reddy University, Hyderabad, India during September 24-25, 2021. This paper has been published in the proceedings of ICISSC-2021, Springer Smart Innovation, Systems and Technologies Series (SIST Series)

2. Presented a paper on "Assessing the relation between family background and juvenile delinquency using data mining" in the 2019 International Conference on Computer Communication and Informatics (ICCCI 2019) organized by department of Computer Science & Engineering, Sri Shakthi Institute of Engineering and Technology, Coimbatore during 23-25, January 2019.

3. Presented a paper on "Association of Education Levels and Juvenile Delinquency with Data Mining Method" in the 3rd International Conference on Innovative Computation Technologies (ICICT-2018), Organized by RVS Technical Campus during November 15-16, 2018 at Coimbatore.

4. Presented a paper on "Generation of Random Fields for Image Segmentation based on MRF Energy Level Set Method" in Springer - Smart Computing & Informatics (SCI-2018) organized by Department of CSE & IT, PVPSIT, Vijayawada during 27-28, January 2018.

5. Presented a paper on "Image Segmentation using Markov Random Field Energy Function" in the UGC Sponsored Two-Day International Conference on "Digital India – The Information for All (ICDIA -2016)" organized by the Department of Computer Science & Applications, K.B.N. College, Vijayawada, Andhra Pradesh, India in collaboration with Krishna University, Machilipatnam on 2nd and 3rd December 2016.

6. Presented a paper entitled "Generation of Optimal Random Fields for Image Segmentation using Fuzzy Multi-Region Technique" in the IEEE International Conference on Communication and Electronics Systems (ICCES 2016) organized by PPG Institute of Technology, Coimbatore, India during 21-22 October 2016.

National:

1. Presented a paper entitled "Query Optimization using the Technique of Progressive Parametric" in National Conference on Research Trends in Computer Science and Technology (NCRTCST-2012) at CMR College of Engineering and Technology organized by Department of Computer Science and Engineering & Department of Information Technology during 27-28 January 2012.

AWARDS AND ACCOLADES:

Books:

1. Facial Emotion Recognition for Decision Making, ISBN: 978-620-4-20937-1, LAP LAMBERT Academic Publishing International, Date: 07-10-2021

2. Image Enhancement and Segmentation using Soft Computing Techniques, ISBN: 978-620-3-92998-0, LAP LAMBERT Academic Publishing, International, Date: 08-07-2021

3. Soft Computing Techniques for Image Restoration, ISBN:978-620-3-84669-0 LAP LAMBERT Academic Publishing, International, Date: 20-04-2021

4. Techniques for Generation of Random Fields for Image Segmentation and Image Analysis, ISBN: 978-620-3-19885-7, LAP LAMBERT Academic Publishing, 20-12-2020.

Patents:

Title: "A Secured Image Processing System of Biometric Based Automated Ration Distribution", Patent Application No: 201941039689 A, The Patent Office Journal No. 42/2019, Dated 18/10/2019, Page No: 48853

Coursera Certifications:

1. Introduction to TensorFlow for Artificial Intelligence, Machine Learning and Deep Learning an online non-credit course authorized by deeplearning.ai and offer through Coursera.

2. Convolutional Neural Networks in TensorFlow an online non-credit course authorized by deeplearning.ai and offer through Coursera.

3. Natural Language Processing in TensorFlow an online non-credit course authorized by deeplearning.ai and offer through Coursera.

4. Sequences, Time Series and Prediction in TensorFlow an online non-credit course authorized by deeplearning.ai and offer through Coursera.

NPTEL Certifications:

1. Python for Data Science

ACHIVEMENTS:

- Qualified UGC NET – 2018 as Assistant Professor in Computer Science & Applications
- Qualified APSET – Assistant Professor/ Lectureship 2013 in Computer Science & Applications
- Qualified in GATE - 2012 in Computer Science & Engineering
- Qualified in GATE - 2005 in Computer Science & Engineering