**ANNAMACHARYA UNIVERSITY**

**About Profile**

**Name**: Dr. M. Subba Rao

**DATE OF BIRTH:** 04/06/1979

**DESIGNATION:** PROFESSOR

**DEPARTMENT:** CSE

**EMAIL ID:** [**msraoswap@gmail.com**](mailto:msraoswap@gmail.com)

**DATE OF JOINING:** 25/07/2000

**EMPLOYEE ID:** AITS121001

## Academic Profile

| **Qualification** | **Name of the Board/University** | **YEAR** |
| --- | --- | --- |
| Ph. D | JNTUA University,  Ananthapur | 2021 |
| M. Tech(CSE) | JNTU University,  Hyderabad | 2005 |
| B. Tech (CSE) | NBKRIST, Vidyanagar  SV University, Tirupathi | 2000 |

**Research Details**

1. **Areas of Specialization:**

Image Processing, Pattern Recognition, Artificial

Intelligence Neural Networks, Machine Learning and

Compiler Design

1. **List of Publications: 31**
2. **Awards Received :4**
3. **Research Guidance:**
4. No. of PhD Guided: 5 (Guiding)
5. No. of M. Tech Guided: 14
6. No. of B. Tech Guided: 50
7. **Details of Professional Membership**:

CSI - F8004689

ISTE - LM 61834

IACSIT - 80337954

IAENG - 114342

SDIWC - 1005

1. **Subjects Taught:**

|  |  |
| --- | --- |
| * 1. Formal Languages & Automata Theory/ Theory of Computation   2. Compiler Design/Language Processors   3. Mathematical Foundations of Computer Science   4. Design and Analysis of Algorithms   5. Software Engineering   6. Simulation and Modeling   7. System Programming   8. Soft Computing   9. Image Processing   10. Automata and Compiler Design   11. Neural Networks and Applications   12. Artificial Intelligence   13. Artificial Intelligence & Fuzzy Logic | * 1. Data Structures Through C   2. C And Data Structures   3. Artificial Neural Networks   4. Object Oriented Analysis and Design   5. Design Patterns   6. Computer Organization   7. Principles of Programming Languages   8. Operating Systems   9. Switching Theory and Logic Design   10. Network Security and Cryptography   11. Software Testing Methodologies   12. Artificial Intelligence and Expert Systems   13. Machine Learning   14. Soft Computing Techniques   15. Artificial Intelligence and Neural Networks   16. Advanced Algorithms and Analysis |

## Patent Details

1. Dr.M. Subba Rao et al “Method for simultaneous scheduling in multi machine flexible manufacturing system to minimize make span” with Indian Patent No: 202241025473 filed on 30/04/2022 and granted on 16-12-2023.
2. Dr.M.Subba Rao et al “Machine Learning based Medical device quality checking system” with Indian Patent 202241055275 filed on 01/09/2022and granted on 27-09-2022.

## Publication Details

|  |  |  |
| --- | --- | --- |
| **Title** | **Journal/Conference** | **Published Year** |
| Enhancing transparency and fairness in scalable machine learning models through explainable transfer learning with BIAS Mitigation | Advanced Emerging Trends and Applications in Management, Science and Technology held on 2nd and 3rd May 2024 | 2024 |
| Kullback -Leibler Divergence Based Feature Selection Method for Image Texture Classification | Springer, Networks and Systems, Volume:897, pp:309-318,  <https://doi.org/10.1997/978-981-99-9704-6> | 2023 |
| Advancements in liver disease diagnosis: Integrating image quality enhancement, Automated lesion detection, Multi-modal data fusion and AI-driven diagnosis | IJFANS International Journal of Food and Nutritional Sciences, Volume: 11, Issue: 11 | 2022 |
| Improvement of Noise Removal and Quality of Underwater Images using Super Resolution Method | Telematique, Volume.21, Issue 1,4884-4900.  [Web of science] | 2022 |
| Analysis of Medical Image data by deep Convolution Techniques and Kernel Density Estimation | Neuroquantology, Volume.20, Issue 11, 2565-2574. DOI:10.14704/NQ.2022.20.11.NQ66257. | 2022 |
| Deep Learning Technique for automatically classifying Images | Mathematical Statistician Engineering Applications, Volume.71, Issue 4, 2362-2370. ISSN:2094-0343.(Scopus) | 2022 |
| Texture Classification using Minkowski Distance Measure based Clustering for Feature Selection | Journal of Electronic Imaging, Vol.31. Issue. 4, 041204 , DOI: 10.1117/1.JEI.31.4.041204. SPIE Digital Library [SCI] | 2022 |
| Sentiment and Emotion Classification using Convolutional Neural Networks with Long Short Term Memory | Dogo Ranging Research Journal, Vol.13,No.1, ISSN:2347 | 2022 |
| Parametric Analysis of Texture Classification using Modified Weighted Probabilistic Neural Network (MWPNN) | Modern approaches in Machine Learning and Cognitive Science: A Walk through, Volume. 956, Studies Computational Intelligence, Chapter 37, 978-3-030-68290-3, 499760\_1\_En [Springer Nature]. | 2021 |
| Kullback-Leibler (KL) Divergence Based Feature Selection for Image Texture Classification | Applications and Applied Mathematics: An International Journal, Volume.9. ISSN: 1932-9466 [WOS]. | 2021 |
| Image Texture Classification using Fuzzy Inclusion and Fuzzy Entropy Measures | International Journal of Advanced Trends in Computer Science and Engineering, Volume.9, No.4, August: ISSN: 2278-3091. | 2020 |
| An Improved Convolutional Neural Network with LSTM Approach for Texture Classification | International Journal of Emerging Trends in Engineering Research, Volume.8, No.7, July 2020, ISSN: 2347-3983 | 2020 |
| Automatic Speaker Recognition System using k-Nearest neighbor Algorithm | Journal of Engineering Sciences, Vol.11, No.4,2020 pp.576-583, ISSN:0377-9254 | 2020 |
| Support Vector Machine based Automatic Speaker System | The International Journal of analytical and experimental model analysis, Vol.12, No.4, pp.526-535, ISSN: 0886-9367. | 2020 |
| Random Forest based Automatic Speaker System | The International Journal of analytical and experimental model analysis, Vol.12, No.4, 2020, pp.1041-1049, ISSN: ISSN: 0886-9367. | 2020 |
| Automatic Speaker Recognition System using Multi-layer Perceptron Algorithm | Journal of Interdisciplinary Cycle Research, Vol.12, No.4, 2020, pp.455-463, ISSN: 0022-1945 | 2020 |
| Global Aggregation Network Nodes for Creation of Transient Networks | International Journal of Research and Analytical Reviews-IJRAR19D1216, Vol.6, No.4, pp.463-466, E-ISSN: 2348-1269 P-ISSN: 2349-5318. | 2019 |
| Global Security using Human Face Recognition System | International Journal of Research and Analytical Reviews-IJRAR19D1216, Vol.6, No.1, pp.455-459, E-ISSN: 2348-1269 P-ISSN: 2349-5318. | 2019 |
| Using Parser performs Segmentation of Webpages and Extraction of Templates | Journal of Emerging Technologies and Innovative Research, Vol.5, No.5, 2349-5162 | 2018 |
| Weighted Probabilistic Neural Network based Texture Classification | Journal of Emerging Technologies and Innovative Research, Volume 5, No.4, ISSN: 2319-5162 | 2018 |
| Performance Analysis of Statistical and Structural Pattern Recognition Methods | International Journal of Research and Analytical Reviews, Volume 4, No.4, ISSN: 2349-5138 | 2017 |
| Mobile Social TV based on Cloud | International Journal of Innovative Research in Computer and Communication Engineering, Vol. 2, No.10. | 2014 |
| Texture Classification using Weighted Probabilistic Neural Networks | International Journal of Image Processing and Vision Sciences, Vol.1, No:2, pp. 105-108 | 2012 |
| Probabilistic Neural Network for Brain Tumor classification | International Journal of Advanced Research in Computer Science and Software Engineering, Vol.2, No.7, ISSN(Print):2277 6451 | 2012 |
| Privacy and Security issues of Cloud Computing | International Journal of Advanced Research in Technology, Vol. 1, No.2, pp.38-46 | 2011 |
| Performance Analysis of Load Balancing Algorithms using Qualitative Parameters: A Review | CiiT International Journal of Networking and Communication Engineering, Volume 3, No.12, pp.810-814 | 2011 |
| Performance Analysis of Load Balancing Techniques for Web Server Systems | International Journal of Advanced Research in Technology, Vol.1, No.1, pp.33-37, ISSN:6602-3127 | 2011 |
| An Overview of Pattern Recognition Methods on Texture Classification | CiiT International Journals of Artificial Intelligent systems and Machine Learning, VoL.3, No.7, pp.426-430, ISSN: 0974-9667. | 2011 |
| Comparative Analysis of pattern Recognition Methods: An Overview | Indian Journal of Computer Science and Engineering (IJCSE), Vol. 2, No. 3, ISSN: 0976-516. | 2011 |
| Comparative Analysis of Pattern Recognition Methods | National Journal on Information and Communication Engineering, Special Issue, ISSN: 2231-2099 | 2011 |
| Reconfiguration of Machine Cell Design in Flexible Manufacturing System: A Neural Network approach | International Journal of Technology World, Malaysia, Vol.2, No.2, pp.47-55, ISSN: 2180-1614 | 2010 |