



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**

(UGC-AUTONOMOUS INSTITUTION)

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NAAC Accredited with A+ Grade

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA



**Department of Computer Science & Technology**

**Details of Faculty Research Publications (AY 2023-24)**

| S.No. | Faculty Name         | Co-Authors   | Paper Title  | Name of the Journal                                | Indexing | Impact Factor | DOI   |
|-------|----------------------|--|--|--|----------|---------------|---|
| 1     | Dr.Aravind B         | D Jayalatchumy,<br>Rajakumar Ramalingam,<br>Mejidl Safran and Sultan<br>Alfarhood  | Improved Crow Search-based Feature<br>Selection and Ensemble Learning for IoT<br>Intrusion Detection                   | IEEE Access.                                       | SCI      | 3.9           | <a href="http://dx.doi.org/10.1109/ACCESS.2024.3372859">http://dx.doi.org/10.1109/ACCESS.2024.3372859</a>                   |
| 2     | Dr.Dinesh K          | Rajakumar Ramalingam,<br>Shakila Basheer, Nandhini<br>Mahadevan and Mamoon<br>Rashid   | MOJMA: A novel multi-objective optimization<br>algorithm based Java Macaque Behavior Model                             | AIMS Mathematics                                   | SCI      | 2.2           | <a href="https://doi.org/10.3934/math.20231545">10.3934/math.20231545</a>   |
| 3     | Dr.Manikandan.R      | Rajesh Kumar<br>Maurya,Tariq<br>Rasheed,Subash Chandra<br>Bose.S,Jose Luis Arias-<br>González,Udit<br>Mamodiya,Ashish Tiwari | Adaptive cloud orchestration resource selection<br>using rough set theory  | Journal of<br>Interdisciplinary<br>Mathematics     | Scopus   |               | <a href="https://www.tarupublications.com/doi/10.47974/JIM-1662">https://www.tarupublications.com/doi/10.47974/JIM-1662</a> |
| 4     | Dr.SerinV.Simpson    | Y. Ravi Raju, K. Bhanu<br>Rajesh Naidu,Gopika Venu   | SECURE TRUST: a blockchain_x005fenabled<br>trust and reputation system for malicious node<br>detection in IOT networks | International Journal of<br>Information Technology | Scopus   |               | <a href="https://doi.org/10.1007/s41870-023-01467-5">https://doi.org/10.1007/s41870-023-01467-5</a>                         |
| 5     | Dr.Magesh<br>Kumar.N | J. Swapna , A. Pandiaraj ,<br>R. Rajakumar , Moez<br>Krichen , Vinayakumar<br>Ravi   | Hybrid cloud storage system with enhanced<br>multilayer cryptosystem for secure deduplication in<br>cloud.             | International Journal of<br>Intelligent Networks   | Scopus   |               | <a href="https://doi.org/10.1016/j.ijin.2023.11.001">doi.org/10.1016/j.ijin.2023.11.001</a>                                 |

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|-------|-------------------|---|--|--|----------|---------------|---|
| 6     | Dr.Magesh Kunar.N | A. Vijayaraj, V.P. Murugan, Subba Reddy Chavva, Uma Maheswari G   | Skin Cancer Detection in Deep Learning Using Restnet-50 Model  | International Journal on Recent and Innovation Trends in Computing and Communication | Scopus   |               | <a href="https://doi.org/10.17762/ijritcc.v11i9.9333">https://doi.org/10.17762/ijritcc.v11i9.9333</a>                       |
| 7     | Dr.Magesh Kunar.N | Vijayaraj , Subba Reddy Chavva , Gururama Senthilvel  | Prediction of User Attrition in Telecommunication Using Neural Network   | EAI Endorsed Transactions on Scalable Information Systems                            | Scopus   |               | <a href="https://doi.org/10.4108/eetsis.5242">10.4108/eetsis.5242</a>   |
| 8     | Dr.Sree Divya.K   | Dr.s.Hemalatha, Venkatagurunatham naidu kollu, Shaik shafi, Chettiyar vani vivekanand, G.Vikram, Ramu kuchipudi, Rajesh pchinchewad | An improved mutual exclusion MAC protocol for MAC layer in MANET to overcome hidden and exposed terminal problem                                     | Journal of Theoretical and Applied Information Technology                            | Scopus   |               | <a href="http://www.jatit.org/volumes/Vol102No4/27Vol102No4.pdf">http://www.jatit.org/volumes/Vol102No4/27Vol102No4.pdf</a> |
| 9     | Mr.Suresh.D       | Sumesh M, V Sheeja Kumari, R. Sivabalan, Carmel Mary Belinda M J, K Anbazhagan  | Investigate methods to securely store and protect fingerprint templates in biometric databases to prevent unauthorized access and potential breaches | Tuijin Jishu/Journal of Propulsion Technology  | Scopus   |               | <a href="https://doi.org/10.52783/tjpt.v44.i6.3975">https://doi.org/10.52783/tjpt.v44.i6.3975</a>                           |
| 10    | Mr.Amith Arya     | Dr. Babhuti Kashyap, Dr. Vrinda Sachdeva, Abhinandan Shirahatti , Gurwinder Singh, , Senthilkumar Jagatheesan , Chaman Kumar        | A Novel Approach for Human Behaviour Prediction Using Deep Learning Algorithms   | Intelligent Systems And Applications In Engineering                                  | Scopus   |               | <a href="https://ijisae.org/index.php/IJISAE/article/view/4192">https://ijisae.org/index.php/IJISAE/article/view/4192</a>   |

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|-------|--------------------------|--|--|---|----------|---------------|---|
| 11    | Mr.Suresh.D              | V Sheeja Kumari,G<br>Vennira Selvi,S<br>Ponmaniraj,R.Sivabalan,A<br>sokkumar | Analysing a Duo of Widespread<br>Neurodegenerative Disorders: Exploring Their<br>Roots, Clinical Expressions, Unfolding Processes,<br>and the Arsenal of Available Therapies | Tuijin Jishu/Journal of<br>Propulsion Technology  | Scopus   |               | <a href="https://doi.org/10.52783/tjjpt.v44.i6.4397">https://doi.org/10.52783/tjjpt.v44.i6.4397</a>                       |
| 12    | Mr.Maruthi Prasad        | Gutti Naga Swetha<br>, K. Md. Riyaz Ali                                      | Creation of A Music Recommendation System<br>using Facial Expression<br>Recognition with MATLAB  | International Journal of<br>Intelligent Systems and<br>Applications in<br>Engineering         | Scopus   |               | <a href="https://ijisae.org/index.php/IJISAE/article/view/4668">https://ijisae.org/index.php/IJISAE/article/view/4668</a> |
| 13    | Mr.Maruthi Prasad        | Dr. B. Bharathi  | Configuring and Implementing IPS Solutions for<br>IoTDevices using NST   | International Journal on<br>Recent and Innovation<br>Trends in Computing and<br>Communication | Scopus   |               | <a href="https://doi.org/10.17762/ijritcc.v11i11s.8162">https://doi.org/10.17762/ijritcc.v11i11s.8162</a>                 |
| 14    | Ms.Gopika Venu           | Dr.R. Sudhakar<br>, Dr.S. Elango<br>, Arya Surendran                         | Reading Assistant for Visually Challenged Peoples<br>with Advance<br>Image Capturing Technique Using Machine<br>Learning   | Migration Letters   | Scopus   |               | <a href="https://doi.org/10.59670/ml.v20iS13.6467">https://doi.org/10.59670/ml.v20iS13.6467</a>                           |
| 15    | Mr.Bhanu Rajesh<br>Naidu | M. Kandan<br>, P. Shobha Rani<br>, T. Sathiya,<br>, M. Maheswari             | Distributed Dos Attacks Detection Based on<br>Machine Learning<br>Techniques in Software Defined Networks  | International Journal of<br>Intelligent Systems And<br>Applications In<br>Engineering         | Scopus   |               | <a href="https://ijisae.org/index.php/IJISAE/article/view/5330">https://ijisae.org/index.php/IJISAE/article/view/5330</a> |

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|-------|-----------------------|--|---|--|----------|---------------|---|
| 16    | Mr.Sudheer.N          | Dr Suresh Kumar, Dr. Purnendu Bikash Acharjee, Dr S.Arulraj, Dr P Vellingiri,Dr.G T Sasetharan | Contemporary Social Media And Iot Based Pandemic Control; An Analytical Approach                        | Migration Letters  | Scopus   |               | <a href="https://migrationletters.com/index.php/ml/article/view/7732">https://migrationletters.com/index.php/ml/article/view/7732</a> |
| 17    | Dr.Sreedivya K        | VenkataRamaiah Gude, Sujeeth T, P. Dileep Kumar Reddy, G. Ramesh                               | Machine Learning for Characterization and Analysis of Microstructure and Spectral Data of MAterials     | International Journal of Intelligent Systems and Applications in Engineering                             | Others   |               | <a href="https://ijisae.org/index.php/IJISAE/article/view/5478/4204">https://ijisae.org/index.php/IJISAE/article/view/5478/4204</a>   |
| 18    | Mr.Bhanu Rajesh Naidu | M V Anjana Devi, Pragathi Vulpala, Dr. Mahesh Kotha  | A Secured Data Storage in Cloud Computing by Using Block Design Based Key Agreement                     | International Journal of Scientific Research in Computer Science, Engineering and Information Technology | Others   |               | <a href="https://doi.org/10.32628/CSEIT23902102">https://doi.org/10.32628/CSEIT23902102</a>   |
| 19    | Mr.Bhanu Rajesh Naidu | A Radha Krishna,A. Krishna Veni.   | Prediction of Rainfall for Farmers using Artificial Intelligence: A Survey                              | Journal of Information and Computational Science   | Others   |               | <a href="https://doi.org/10.12733/JICS.2023.V13I10.535569.10038">10.12733.JICS.2023.V13I10.535569.10038</a>                           |
| 20    | Mr.Bhanu Rajesh Naidu | Madhu Midhan,Harshvardan Kumar Raju,Hemanth Kumar. M,Hemanth Kumar. T,Madan Mohan Reddy. M     | A Comprehensive Review of Deep Learning Approaches for Image Quality Enhancement in Medical Imaging     | Journal of Current research in Engineering   | Others   |               | <a href="https://jcreng.bujournals.com/archives">https://jcreng.bujournals.com/archives</a>   |
| 21    | Mr.Ashok D            | Sampath, Thalakola Syamsundararao  | Data Leakage Detection System for Cloud-based Storage Systems   | Material Science and Technology  | Others   |               | <a href="https://doi.org/10.10543/f0299.2023.41567">10.10543/f0299.2023.41567</a>   |
| 22    | Dr. R. Manikandan     | P.Chinnaamy, Rafath Samrin, B.Ben Sujatha, R, Augasthega, A. Nageswaran                        | Integrating Intelligent Breach Detection System into 6G Enabled Smart Grid-Based Cyber Physical Systems | Wireless Personal Communications   | SCI      | 2.2           | <a href="https://doi.org/10.1007/s11277-024-11192-2">https://doi.org/10.1007/s11277-024-11192-2</a>                                   |
| 22    | Dr. R. Manikandan     | R.Suganya, Ajmeera Kiran, D. Akila, S. Spandana, A. Nageswaran                                 | An Integration of Digital Twin and 6G Edge computing approach to secure Cyber Physical Systems          | Wireless Personal Communications   | SCI      | 3.2           | <a href="https://doi.org/10.1007/s11277-024-11181-5">https://doi.org/10.1007/s11277-024-11181-5</a>                                   |

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|-------|------------------------|--|--|-------------------------------|----------|---------------|---|
| 23    | Dr. S. Padma           | Gajendra Singh Rajput, Kailash Kumar Baraskar, Shrikant Telang, MAndakini Ingle, Jayesh Surana | Brain Tumor Detection and Multi-Classification Using Advanced Deep Learning Techniques   | Journal of Electrical Systems | Scopus   |               | <a href="https://doi.org/10.52783/jes.1809">https://doi.org/10.52783/jes.1809</a>     |
| 24    | Dr. N. Praveena        | E.S. Phalguna Krishna, I. Manju, N. Malathi, K. Balakrishnana, M. Preetha                      | IoT -Enabled Wireless Sensor Networks and Geospatial Technology for Urban Infrastructure Management  | Journal of Electrical Systems | Scopus   |               | <a href="https://doi.org/10.52783/jes.2395">https://doi.org/10.52783/jes.2395</a>     |
| 25    | Mr. Koppiseti Giridhar | P. Radha Krishnan, Abullas Nehal Ahmed, K. Kalaiarasi, S. Thenappan                            | EEG-Based Brain -Computer Interfaces Using Gazelle Optimization Algorithm with Deep Learning for Motor-Imagery Classification.                       | Fusion Practice & Application | Scopus   |               | <a href="https://doi.org/10.54216/FPA.160103">https://doi.org/10.54216/FPA.160103</a> |
| 26    | Mr.N Junnu Babu        | S.Srinivasan, Rakesh Kumar Giri, Thamizhselvi P, A. Kanchana                                   | Development of an Elderly Care Rehabilitation System Utilizing Machine Learning for Energy Monitoring and Transmission using Wireless Sensor Network | Journal of Electrical Systems | Scopus   |               | <a href="https://doi.org/10.52783/jes.2401">https://doi.org/10.52783/jes.2401</a>     |

Faculty Incharge

Head of the Department

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### Department of Computer Science & Technology

#### Conference and Book Chapter Publications (AY 2023-24)

| S. No. | Name of the faculty   | Title of the paper   | Title of the proceedings of the conference | Name of the conference  | Year of publication | ISBN/ISSN number of the proceeding | Affiliating Institute at the time of publication | Name of the publisher |
|--------|-----------------------|--|--|---|---------------------|------------------------------------|--|-----------------------|
| 1      | Mr.N Junnu Babu       | Detecting Diseases in Potato Leaves using Deep Learning and Machine Learning Approaches: A Review                                      | ICOSEC-2023                                | Fourth International Conference on Smart Electronics and Communication          | 2023                | 979-8-3503-0088-8                  | MITS   | IEEE Xplore           |
| 2      | Mr.Sai Kiran.N        | Leveraging the Ensemble Model in Spam detection for Youtube Comments   | ICSSAS 2023                                | International Conference on Self Sustainable Artificial Intelligence Systems    | 2023                | 979-8-3503-0085-7                  | MITS   | IEEE Xplore           |
| 3      | Mr.Sai Kiran.N        | Leveraging Deep Belief Networks and Multi-Class Support Vector Machine for Nutritional Deficiency Identification in Grape Plant Leaves | ICECA 2023                                 | International Conference on Electronics, Communication and Aerospace Technology | 2023                | 979-8-3503-4060-0                  | MITS   | IEEE Xplore           |
| 4      | Dr.Basabi Chakraborty | Advances in Data Science and Computing   | ADSC-2023                                  | Lecture notes in Electrical Engineering   | 2023                | 978-981-99-3656-4                  | MITS   | ADSC                  |
| 5      | Mr.Ashok D            | Leveraging CNN and LSTM for Identifying Citrus Leaf Disorders  | ICACRS-2023                                | Second International Conference on Automation, Computing and Renewable Systems  | 2023                | 979-8-3503-4023-5                  | MITS   | IEEE Xplore           |

| S.No. | Faculty Name        | Co-Authors   | Paper Title  | Name of the Journal   | Indexing | Impact Factor     | DOI  |             |
|-------|---------------------|--|--------------|---|----------|-------------------|------|-------------|
| 6     | Dr.Magesh.N         | Wireless Sensor Networks Consistent and Honest Routing Scheme  | RMKMATE-2023 | International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering | 2023     | 979-8-3503-0570-8 | MITS | IEEE Xplore |
| 7     | P. Lakshmiramana    | WoodType Identification via Neural Networks and Spectral Analysis: An advanced Algorithmic solution          | ICDAAI       | 2023 International Conference on Distributed Computing and Optimization Techniques  | 2023     | 979-8-3503-8295-2 | MITS | IEEE Xplore |
| 8     | P. Lakshmiramana    | Hybrid Ant Colony and Artificial Bee Colony Optimisation for Resource Allocation in Cognitive Radio Networks | ICDCOT       | 2024 International Conference on Data Science, Agents, and Artificial Intelligence  | 20224    | 979-8-3503-4891-0 | MITS | IEEE Xplore |
| 9     | Dr. Serin.V.Simpson | New Analytic Framework of Public Mental Health Prediction using Data Science                                 | ICCSP        | International Conference on Communication and Signal Processing   | 2024     | 979-8-3503-5306-8 | MITS | IEEE Xplore |
| 10    | Dr. Serin.V.Simpson | Intelligent URL Analysis for Phishing Threads  | ICCSP        | International Conference on Communication and Signal Processing   | 2024     | 979-8-3503-5306-8 | MITS | IEEE Xplore |
| 11    | Dr. Serin.V.Simpson | Detection and Classification of Pneumonia in Chest X-ray Images using Deep Learning Techniques               | ICCSP        | International Conference on Communication and Signal Processing   | 2024     | 979-8-3503-5306-8 | MITS | IEEE Xplore |
| 12    | Dr. Serin.V.Simpson | An IoT-Based Deep Belief Network in Intrusion Detection System using Butterfly Optimization                  | ICCSP        | International Conference on Communication and Signal Processing   | 2024     | 979-8-3503-5306-8 | MITS | IEEE Xplore |

| S.No. | Faculty Name   | Co-Authors   | Paper Title | Name of the Journal  | Indexing | Impact Factor     | DOI  |             |
|-------|----------------|--|-------------|--|----------|-------------------|------|-------------|
| 13    | Ms. B. Lakshmi | Evaluation of Adaptive Synthetic Resampling Technique for Imbalanced Breast Cancer Identification                  | ICMLDE      | International Conference on Machine Learning and Data Engineering                  | 2024     | 1877-0509         | MITS | Elsevier    |
| 14    | Mr. Suresh. D  | Quality Enhancement for Uninvited Content of Social Media Using Support Vector Machine and Alexnet                 | ICDSAAI     | 2023 International Conference on Distributed Computing and Optimization Techniques | 2023     | 979-8-3503-4891-0 | MITS | IEEE Xplore |
| 15    | Mr. V. Naveen  | Enhancing the Prediction of Underwater Wireless Communication using Machine Learning Techniques and Related Issues | ICDSAAI     | 2023 International Conference on Distributed Computing and Optimization Techniques | 2023     | 979-8-3503-4891-0 | MITS | IEEE Xplore |
| 16    | Mr. V. Naveen  | Enhanced Visuals through Software-Optimized Memory Pipeline  | ICDSAAI     | 2023 International Conference on Distributed Computing and Optimization Techniques | 2023     | 979-8-3503-4891-0 | MITS | IEEE Xplore |

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### Department of Computer Science & Technology

#### Book Publications (AY 2023-24)

| S. No. | Name of the faculty | Title of the book | Year of publication | Attaining Institute at the time of publication | Name of the publisher   |
|--------|---------------------|-------------------|---------------------|--|-------------------------|
| 1      | Mr.Abdul Jaleel.D   | Compiler Design   | 2023                | MITS   | Charulatha Publications |

Faculty Incharge

Head of the Department