




# Bharathiar University

State University | "A++" Grade by NAAC | 46<sup>th</sup> Rank in MoE-NIRF  
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<b>Dr J SATHEESHKUMAR</b> Professor Department of Computer Applications Bharathiar University Coimbatore, 641046 Tamil Nadu <b>E-mail:</b> j.satheesh@buc.edu.in <b>Phone:</b> 9443968110 <b>Office Number:</b> 04222428347	
<b>Research Area</b> <ul style="list-style-type: none"><li>• Image Processing</li><li>• Soft Computing</li><li>• Internet of Things</li></ul>	<b>Courses Teaching</b> <ul style="list-style-type: none"><li>•</li></ul>
<b>Research Experience:</b> 20	<b>Teaching Experience:</b> 25
<b>Research Credentials</b> (as on October 2024 – Source: Google scholar) H-index: 16                      Citations: 1605                      i10-index: 21	
<b>Patents :</b> Granted: 1	
<b>Publications</b> International Journals: 93	
<b>Career</b> <b>Other Institutes</b> <ol style="list-style-type: none"><li><b>1. Designation : Lecturer</b> Institution Name : Sri Sankara Arts and Science College, Kanchipuram Period : June 2002 - April 2005</li><li><b>2. Designation : Lecturer</b> Institution Name : Sri Venkateswara Polytechnic, Parasur Period : July 1999 - June 2000</li><li><b>3. Designation : Guest Faculty</b> Institution Name : Arignar Anna Government Arts College, Cheyyar. Period : August 2000 - March 2002</li></ol> <b>At Bharathiar University</b> <ol style="list-style-type: none"><li><b>1. Designation : Professor</b> Period : April 2025 - Till Date</li></ol>	
<b>Education</b> <b>Ph. D.</b> Subject : Computer Science Institution : SCSVMV UNIVERSITY Affiliated University : SCSVMV UNIVERSITY Year of Award : November 2010 <b>B. Sc.</b> Subject : Physics Institution : Aringnar Affiliated University : Thiruvalluvar University Year of Award : May 2003	



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Dr J SATHEESHKUMAR , Professor , Department of Computer Applications

## M.C.A

Subject : Computer Application

Institution : AVVMSP College, Poondi, Tanjore

Affiliated University : Bharathidasan University

Year of Award : April 1999

## Projects

## Research Guidance

**Completed**

Ph.D. - 1

**On Going**

Ph.D. - 3 M.Phil. - 1

## Publications

### International Journals - 93

#### 93. Decision making based ensemble feature selection approach through a new score function in -rung orthopair hesitant fuzzy environment

MAthematics and computer in Simulation,Volume. 232,Pages 362-381 (June 2025)

Kavitha S. Kendra N., Satheeshkumar J., Amudha T., Balachandran Manavalan

#### 92. Artificial intelligence and machine learning algorithms in the detection of heavy metals in water and wastewater: Methodological and ethical challenges

Chemosphere (,2024,141474,ISSN0045-6535,2024, (January 2024)

Brij Mohan Maurya, Nidhi Yadav, Amudha T, Satheeshkumar J, Sangeetha A, Parthasarathy V, Mahalaxmi Iyer, Mukesh Kumar Yadav, Balachandar Vellingiri

#### 91. Semantic role identification for Malayalam using machine learning approaches

Innovations in Systems and Software Engineering, SPRINGER (February 2023)

Jisha P. Jayan, J. Satheesh Kumar, T. Amudha

#### 90. Multi-label feature selection using q-rung orthopair hesitant fuzzy MCDM approach extended to CODAS,

#### Mathematics and Computers in Simulation

Mathematics and Computers in Simulation, Elsevier (January 2023)

S. Kavitha, J. Satheesh Kumar, T. Amudha

#### 89. Diagnostic and therapeutic approach of artificial intelligence in neuro-oncological diseases

Biosensors and Bioelectronics: X, Volume 11, 2022, 100188, ISSN 2590-1370 (September 2022)

[10]. Dhivya Venkatesan, Ajay Elangovan, Harysh Winster, Md Younus Pasha, Kripa Susan Abraham, Satheeshkumar J, Sivaprakash P, Ayyadurai Niraikulam, Abilash Valsala Gopalakrishnan, Arul Narayanasamy, Balachandar Vellingiri,

#### 88. Efficient DNA-ligand interaction framework using fuzzy C-means clustering based glowworm swarm optimization (FCMGSO) method

Journal of Biomolecular Structure and Dynamics, pp. 6249-6261 (April 2022)

[8]. E Kiruba Nesamalar, J SatheeshKumar & T Amudha

#### 87. Efficient Fuzzy C-means based reduced feature set Association Rule Mining approach for predicting the user behavioral pattern in Web Usage Mining

Journal of Internet Technology, Vol 23. Issue 7. pp. 1495-1503 (March 2022)

[7]. Serin, J., Satheesh Kumar, J., Amudha, T

#### 86. ARTIFICIAL INTELLIGENCE TOOLS AND TECHNIQUES IN CANCER DATA ANALYSIS

Neuro Quantology, 20(9) pp. 273-286 (February 2022)

[5]. T. Amudha, Subhiksha R Mallya and J. Satheeshkumar

#### 85. Detection of Web User Clusters through KPCA Dimensionality Reduction in Web Usage Mining.

Communications in Computer and Information Science (CCIS), vol 1591, pp. 597-610, Springer (February 2022)

[9]. Serin, J., Satheesh Kumar, J., Amudha, T.



## **84. Enhanced flower pollination algorithm for edge detection and its application for segmentation of banana leaf disease**

Agricultural mechanization in Asia, 53(3), 2022, ISSN : 00845841 (February 2022)  
[12]. Suryaprabha Deenan, J. Satheeshkumar, Seenivasan Nagachandrabose

## **83. Multi Label Feature Selection Through Dual Hesitant q-Rung Orthopair Fuzzy Dombi Aggregation Operators**

IEEE Access, Vol. 10, pp. 67771-67786, ISSN: 2169-3536 (January 2022)  
[11]. S. Kavitha, K. Janani, J. Satheesh Kumar, Mahmoud M Elkhoully, T. Amudha

## **82. Influence of an efficient Hierarchical Clustering Algorithm in analysing Cancer affected DNA Dataset**

Journal of Physics:Conference Series 1998 012030, IOP Publishing, 1-12,(2021) (July 2021)  
[19]. Kiruba Nesamalar E, Satheeshkumar J, Amudha T

## **81. Optimizing neural network parameters for effective classification of benign and malicious websites**

, Journal of Physics:Conference Series 1998 012015, IOP Publishing, 1-10,(2021) (May 2021)  
[17]. Balamurugan P, Amudha T, Satheeshkumar J, Sornam M

## **80. An Efficient Anti-malware system with multilayer perceptron and discriminative common vector**

, Turkish Journal of Computer and Mathematics Education,12(12),929-937, (2021)(Scopus) (May 2021)  
[18]. Balamurugan P, Sornam M, Amudha T, Satheeshkumar J

## **79. Influence of Artificial Intelligence in Clinical and Genomic Diagnostics, Artificial Intelligence Theory, Models and Applications**

1st edition, CRC Press, Taylor and Francis Group, Auerbach Publications, 2021, ISBN 9781032008097. (January 2021)  
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## **78. Classical and fuzzy based image enhancement techniques for banana root disease diagnosis: a review and validation, Oriental**

Journal of Computer Science and Technology, pp. 50-62, 2020. (December 2020)  
[21]. D. Suryaprabha, J. Satheeshkumar and N. Seenivasan

## **77. Image segmentation algorithms for banana leaf disease diagnosis**

Journal of The Institution of Engineers (India): Series C, SPRINGER, 101, 807–820, 2020 (November 2020)  
[20]. Suryaprabha Deenan, J. Satheeshkumar, Seenivasan Nagachandrabose

## **76. A Contrivance to Encapsulate Virtual Scaffold With Comments and Notes**

IAJIT, Vol. 17, No. 3, (May 2020)  
[27]. B. Nagarajan, J. Suguna, J. Satheeshkumar

## **75. Knowledge-based single-tone digital filter implementation for DSP systems**

Personal and Ubiquitous Computing (January 2019)  
[22]. R. Seshadri, S. Ramakrishnan, J. Satheesh Kumar

## **74. Secure data storage and sharing in cloud: vm scheduling**

The IIOAB journal (A Journal of Multidisciplinary science and Technology) ISSN: 0976-3104 vol:7(7), pp.1-3,2018 (December 2018)  
[28]. R.G. Babukarthik, J. Satheeshkumar, J. Amudhavel

## **73. Image Enhancement Techniques for Banana Root Disease Diagnosis: A, Review and Validation**

CiiT international journal of Fuzzy System, pp. 160-162, 2018 (October 2018)  
[23]. D. Surya Prabha and J. Satheesh Kumar

## **72. Generic tool for better learning educational paradigms using Mind Mapping Strategies: Cloud framework**

Bioscience Biotechnology Research Communications (Official Journal of Society for Science & Nature) ISSN: 0974-6455 vol:10(2), pp.1-4 (September 2018)  
[29]. R.G. Babukarthik, J. Satheeshkumar,, J. Amudhavel

## **71. Energy Efficient Intelligent Decision Making System for Coal Mining Decision Making System for Coal Mining**

Bioscience Biotechnology Research Communications (Official Journal of Society for Science & Nature) ISSN: 0974-6455 vol:10(2), pp.5-9 (September 2018)  
[30]. R.G. Babukarthik, J. Satheeshkumar, J. Amudhavel



## 70. Secured Rapid Data Retrieval for Cloud Framework (RDRCF) using Multi Objective Particle Swarm

### Optimization

Bioscience Biotechnology Research Communications (Official Journal of Society for Science & Nature) ISSN: 0974-6455  
vol:10(2), pp.5-9 (September 2018)

[31]. R.G. Babukarthik, J. Satheeshkumar, J. Amudhavel

## 69. Intelligent Decision System using Spatial Data Infrastructures (SDI) for Urban Governance

International journal of Pure and applied mathematics vol 6(2), pp. 1-5 (March 2018)

[33]. R.G. Babukarthik, J. Satheeshkumar, J. Amudhavel

## 68. A Novel Approach for of Parkinson's disease (Voice Dysphonia): Fuzzy Logic

International of applied mathematics vol 6(2), pp. 1-14 (February 2018)

[32]. R.G. Babukarthik, J. Satheeshkumar, J. Amudhavel

## 67. Efficient image contrast enhancement algorithm using genetic algorithm and fuzzy intensification operator

Wireless personal communications, SPRINGER (January 2018)

[36]. D. Surya Prabha, J. Satheesh Kumar

## 66. Weed Detection Robot System in Sugarcane Fields using Fuzzy Real Time Classifier

Computers and Electronics in Agriculture, ELSEVIER, Vol. 134, pp. 160–171 (June 2017)

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## 65. Optimized peer to peer qspr prediction of enthalpy of formation Using outlier detection and subset

### selection

Peer to Peer Journal, SPRINGER, 1156-1165 (May 2017)

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### Tampering

Wireless Personal Communications, SPRINGER, pp.1-19 (March 2017)

[35]. V. Thirunavukkarasu, J. Satheesh Kumar, Gyoo Soo Chae and J. Kishorkumar

## 63. Passive Image Tamper Detection Technique Based on Moment Invariants

IJCTA, 9(10), pp. 4705-4714 (September 2016)

[38]. V. Thirunavukkarasu, J. Satheesh kumar

## 62. Color Filter Array Interpolation Using Gaussian Filter

IJCTA, 9(10), pp. 4715-4724 (September 2016)

[39]. S. Janani, J. Satheesh Kumar

## 61. Semantic Role Labeling for Malayalam

IJCTA, 9(10), pp. 4725-4731 (September 2016)

[40]. Jisha P Jayan , J Satheesh Kumar

## 60. , Sequential Hybridization of Genetic Al-gorithm and Fuzzy Logic for Enhanced Edge Detection of Banan

IJCTA, 9(10), pp. 4733-4745 (September 2016)

[41]. D. Surya Prabha, J. Satheesh Kumar

## 59. Computer assisted QSAR/QSPR approaches – a review

INDJST, 9(8), pp. ISSN: 0974-5645, 2016(SCOPUS) (July 2016)

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## 58. Kumar A Novel Method to Detect Copy-Move Tampering in Digital Images

INDJST, 9(8), pp. ISSN: 0974-5645, 2016(SCOPUS) (June 2016)

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## 57. Total Variation Based Multi Feature Model for Epilepsy Detection Using Support Vector Machine

IETE Journal of Research, 62(6), pp.822-832 (SCI-E) (May 2016)

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## 56. Electromyography Based Detection of Neuropathy Disorder Using Reduced Cepstral Feature

INDJST, 9(8), pp. ISSN: 0974-5645, 2016(SCOPUS) (May 2016)

[47]. P. Bhuvaneswari, J. Satheesh kumar



## 55. A Note on Intelligent Street Light System

Recent Advances in Mathematics, Statistics and Computer Science, pp. 466-474, (April 2016)  
J. Satheesh Kumar, C. G. Sreekaviya

## 54. Performance Evaluation of Image Segmentation using Objective methods

INDJST, 9(8), pp. ISSN: 0974-5645, 2016(SCOPUS) (April 2016)  
[49]. D. Surya Prabha, J. Satheesh Kumar

## 53. An Attribute Weighted Fuzzy Clustering Algorithm For Mixed CrimeData

INDJST, 9(8), pp. ISSN: 0974-5645, 2016(SCOPUS) (April 2016)  
[50]. K. Revathy, J. SatheeshKumar

## 52. Blind image forensic detection based on image key points

Proc. of ICICTS 2016, 2(1), pp. 30-34, ISSN:2383-9279, 2016 (April 2016)  
[54]. V. Thirunavukkarasu, J. Satheesh Kumar

## 51. Banana leaf disease detection using segmentation approach

Proc. of ICICTS 2016, 2(1), pp. 145-149, ISSN:2383-9279, 2016 (April 2016)  
[55]. D. Surya Prabha, J. Satheesh Kumar

## 50. Geometric Shaped Facial Feature Extraction for Face Recognition

IEEE International Conference on Advances in Computer Applications (ICACA), pp. 275-278, 2016. (SCOPUS) (March 2016)  
[42]. Saranya R Benedict, J. Satheesh Kumar

## 49. Passive Image Tamper Detection Based on Fast Retina Key point Descriptor

2016 IEEE International Conference on Advances in Computer Applications (ICACA), pp. 279-285, 2016.(SCOPUS) (March 2016)  
[43]. V. Thirunavukkarasu, J. Satheesh kumar

## 48. Performance Analysis of Image Smoothing Methods for Low Level of Distortion

2016 IEEE International Conference on Advances in Computer Applications (ICACA), pp. 372-376, 2016.(SCOPUS) (March 2016)  
[44]. D. Surya Prabha, J. Satheesh Kumar

## 47. Extreme Learning Machine for the classification of Rainfall and Thunderstorm

Journal of Applied Sciences, (pp. 1-4), ISSN : 1812-5654, 2015(SCOPUS) (November 2015)  
[61]. M.S.SreeKanth, R.Rajesh, J. Satheesh kumar

## 46. Lie Detection Based on Teeth Bite Neural Response Using SVM and Neural Networks

IJAER(SCOPUS), 9(20), pp. 4686-4690, 2015, ISSN: 0973-4562. (September 2015)  
[62]. P. Bhuvanewari, J. Satheesh kumar

## 45. Representation and Visualization of Chemical Reaction using Graph Theory

IJAER(SCOPUS), 9(21), pp. 4933-4938, 2015, ISSN: 0973-4562. (September 2015)  
[63]. B. Firdaus Begam, J. Satheesh kumar

## 44. , Malayalam Part of Speech (POS) Tagging Using Discriminative Models

IJAER(SCOPUS), 9(20), pp. 4703-4707, 2015, ISSN: 0973-4562., 2015. (September 2015)  
[64]. Jisha P Jayan

## 43. Energy Efficient and Reliable Transaction of Multimedia Data in Military Environment

IJAER(SCOPUS), 9(20), pp. 4691-4696, 2015, ISSN: 0973-4562. (September 2015)  
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## 42. Influence of Genetic Algorithm for Similarity Subset Analysis in Crime Domain

IJAER(SCOPUS), 9(21), pp. 5033-5036, 2015, ISSN: 0973-4562. (September 2015)  
[66]. Revatthy Krishnamurthy, J.Satheesh Kumar

## 41. Enhanced Edge Detection Method using Unconstrained Non-Linear Optimization Technique

IJAER(SCOPUS), 9(21), pp. 5033-5036, 2015, ISSN: 0973-4562. (September 2015)  
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## 40. Enhanced Vehicle Number Plate Recognition System Using Fuzzy Classifier

IJAER(SCOPUS), 9(20), pp. 4708-4713, 2015, ISSN: 0973-4562 (September 2015)  
[69]. S. Saranya, J. Satheesh Kumar



## 39. Classification of Rainfall and Thunderstorm using Evolutionary Extreme Learning Machine

IJAER(SCOPUS), 9(20), pp. 4525-4527, 2015, ISSN: 0973-4562. (September 2015)  
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## 38. Population based metaheuristic optimization techniques in image edge detection – a review

Proc. of ICloTC2015, 1(1), pp.147-155, ISSN:2465-9088, 2015. (June 2015)  
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## 37. Image Splicing Detection Based on Camera Characteristics and Lighting Inconsistencies

Proc. of ICloTC2015, 1(1), pp.10-14, 2465-9088, 2015. (May 2015)  
[52]. J. Satheesh Kumar, V. Thirunavukkarasu

## 36. Energy efficient neighbor coverage-based probabilistic rebroadcasting in MANET

Journal of Engineering Research, 3(3), pp. 40-58, ISSN: 2307 – 1877, 2015(SCI) (February 2015)  
[57]. J. Sandeep, J. Satheesh Kumar

## 35. Study on banana leaf disease identification using image processing methods

IJRCSIT, 2(2A), pp. 89-94, 2014, Issn: 2319-5010. (September 2014)  
[83]. D. Surya Prabha, J. Satheesh Kumar

## 34. Characterization of Principal Component Analysis for EyeArtifact Detection in EEG Signal

International Journal of Business Intelligents, 3(1), pp. 351-354, 2014, Issn: 2278-2400. (June 2014)  
[71]. P. Bhuvanewari, J. Satheesh kumar

## 33. Image Processing Methods and its Role in Agricultural Sector – A Study

International Journal of Business Intelligents,3(1), pp. 366-373, 2014, Issn: 2278-2400. (June 2014)  
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## 32. Intrusive and Non-Intrusive Techniques for Detecting Fake Images

International Journal of Business Intelligents,3(1), pp. 374-379, 2014, Issn: 2278-2400. (June 2014)  
[75]. V. Thirunavukkarasu, J. SatheeshKumar

## 31. Role of Principal Component Analysis in Electro- encephalography Signal Analysis

Proc. ICCT 2014, pp. 989-991, 2014, Issn: 2287-3257. (April 2014)  
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## 30. Classification of ElectroMyoGraphy signal using Wavelet Decomposition method

Proc. of IEEE, 978-1-4799-3974-9, pp.1326-1329, 2014(SCOPUS). (January 2014)  
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## 29. A Survey on Applications of Image Processing Methods in Agriculture Sector

Proc. ICCT 2014, pp. 997 - 999, 2014, Issn: 2287-3257. (January 2014)  
[78]. D. Surya Prabha, J. Satheesh Kumar, R.Gokulakrishnan

## 28. Analysis of Digital Image Forgery Detection Techniques

Proc. ICCT 2014, pp. 1000 - 1002, 2014, Issn: 2287- 3257 (January 2014)  
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## 27. Visualization of chemical space using principal component analysis

WASJ, 29, 53-59, 2014, ISSN 1818-4952.(SCOPUS) (January 2014)  
[81]. Firdaus Begam, J. Satheesh Kumar

## 26. Vector Machine Technique for EEG Signals

IJCA 63(13), pp. 1-5, ISSN: 0975-8887, 2013. (May 2013)  
[91]. P. Bhuvanewari, J.Satheesh kumar

## 25. Hybrid segmentation of peel abnormalities in banana fruit

IJCA, 4, pp. 38-42, ISSN: 0975-8887, 2013. (April 2013)  
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## 24. Cloud Detection And Removal Algorithm Based On Mean And Hybrid Methods

IJComputing Algorithm, 2(1), pp. 121-126, ISSN:2278-2397,2013. (February 2013)  
[89]. B. Ramesh, J. Satheesh Kumar



## 23. Three Dimensional Object Detection and Classification Methods - A Study

IJERST, 2(2), pp.32-42, ISSN: 2319 – 5991, 2013 (January 2013)  
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## 22. Assessment of banana fruit maturity by image processing technique

Journal Food Science and Technology, Springer, 52(3), pp. 1316-1327, 2013.SCI-E (January 2013)  
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## 21. Dose MANET Senses? – An Intellectual Approach

Procedia Engineering, ELSEVIER, 38 (2012), 1415 – 1431.(SCOPUS) (September 2012)  
[93]. J.Satheesh kumar, J. Sandeep

## 20. Survey on Data mining techniques on Crime Data

IJDMTA, 1(2), pp. 117-120, ISSN:2278-2419,2012. (September 2012)  
[94]. Revathi Krishnamoorthy, J.Satheesh Kumar

## 19. Methods used for identifying EEG signal Artifacts

Pp.375-379,ICSSITE,Elsevier book chapter, 2012 (August 2012)  
[109]. P Bhuvaneswari, J Satheesh Kumar

## 18. A study on image processing methods for fruit classification

Pp.415-418, ICSSITE, Elsevier book chapter, 2012 (July 2012)  
[110]. D Surya Prabha, J Satheesh Kumar

## 17. FMRI Brain Artifact Due to Normalization – A Study

, SPRINGER CCIS, 2012, Volume 253, Part 5, 306-319(SCOPUS) (June 2012)  
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## 16. Could Aura Images can be Treated as Medical Images?

SPRINGER CCIS, 2012, Volume 252, Part 1, 159-170 (June 2012)  
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## 15. A study on image processing methods for fruit classification

Proc. Int. Conf. on Computational Intelligence and Information Technology,Elsevier, 403-406,2012, corpusid 14007146 (May 2012)  
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## 14. Analysis of Electroencephalography (EEG) Signals and its Categorization – A Study

Procedia Engineering, ELSEVIER, 38 ( 2012 ) 2525 – 2536.(SCOPUS) (April 2012)  
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## 13. Rainbow Technology Decidedly Nurtures Storage Trends

International Journal of Technology and Engineering System (IJTES), 3(1), pp. 17-19, 2012, ISSN: 0976-1345. (April 2012)  
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## 12. Impact of MAC Protocol over the Performance of Routing Protocol in MANET

Pp.351-354,ICSSITE,Elsevier book chapter, 2012. (April 2012)  
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## 11. Study On Banana Fruit Quality Assessment Using Image Processing

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## 10. A study on cheminformatics and its applications on modern drug discovery

Procedia Engineering, ELSEVIER, 38 (2012) 1264 – 1275. (SCOPUS) (February 2012)  
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## 9. On the Type-1 and Type-2 Fuzziness Measures for Thresholding MRI Brain Images

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## 8. A Note on Statistical Parametric Map

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## 7. Simple Type-2 T-S Fuzzy Control System for Gyros

IEEE world congress on computational Intelligence, 2010.(SCOPUS) (September 2010)  
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## 6. A Novel Algorithm for an Efficient Realignment of fMRI Data Series of Brain

ICGST International Journal on Graphics, Vision and Image Processing(GVIP), Vol. 9(1), Pp. 35-40, 2009 (August 2009)  
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## 5. A Note on Visualization of Information from Three Dimensional Time Series of Brain

International Journal of Recent Trends in Engineering(IJRTE), Vol. 1(2), Pp. 173-175, 2009 (June 2009)  
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## 4. Does Brain react on Indian music? - An functional Magnetic Resonance Imaging study

IEEE International Joint Conferenceon Neural Networks (IJCNN 2008). Pp. 2696 – 2703, 2008 (September 2008)  
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## 3. On experimenting with functional magnetic resonance imaging on lip movement

The NEURORADIOLOGY journal, Vol. 21, Pp 23-30, 2008.E-SCI SCOPUS (March 2008)  
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## 2. Have a look at the 3 dimensional view of t-statistics? – Isn't it cute ginger

The NEURORADIOLOGY, Vol 21, Pp. 31-34, 2008.E-SCI SCOPUS (March 2008)  
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## 1. On identifying micro level error in realignment phase of statistical parametric mapping

The NEURORADIOLOGY journal, Vol. 20, Pp 491-493. 2007. E-SCI SCOPUS (April 2007)  
[107]. R.Rajesh,J.SatheeshKumar, S.Arumugaperumal,C.Kesavdas

## Patents

### Granted - 1

1. AI BASED SMART MACHINE FOR WATER AND FERTILISER SUPPLY TO CROPS 04-2024 412414-001 1.Dr. T. Amudha 2. Dr.J. Satheeshkumar 3.Dr. R.Swamyathan