

## **Faculty Profile of Dr. T. AMUDHA**



**Dr. T. AMUDHA**

**Professor**

**Department of Computer Applications**

Email: amudhaswamynathan@buc.edu.in

Phone No: 0422 2428348

Mobile No: +91 9790002244

### **Research Area**

- Bio-inspired Algorithms
- Artificial Intelligence
- Agent Based Computing
- Internet of Things

### **Education & Career**

#### **Education**

**Ph.D.**

Subject : Computer Science

Institution : Bharathiar University, Coimbatore

Affiliated University : Bharathiar University

Year of Award : 2013

**M.Phil.,**

Subject : Computer Science

Institution : Bharathidasan University

Affiliated University : Bharathidasan University

Year of Award : 2005

**UGC - NET for Lectureship**

Year of Award : 2003

Register Number : N091590

**M.C.A.,**

Subject: Computer Applications

Institution : Nehru Memorial College, Puthanampatti

Affiliated University : Bharathidasan University

Year of Award : 1999

**B.Sc.,**

Subject: Physics

Institution: Sri Sarada Niketan College for Women, Karur

Affiliated University: Bharathidasan University

Year of Award: 1995

**Career****At Bharathiar University (Reverse Order)**

Associate Professor : April 2005 to Till Date

**Past Experience**

Lecturer : June 2001 to April 2005 at Dr. GRD College of Science, Coimbatore

Lecturer : August 1999 to June 2001 at VLB Janakiammal College of Arts & Science, Coimbatore

**Awards**

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## **Academic awards**

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Sl. No. : 1

Awarding agency : MHRD, Govt of India

Country : India

Purpose of award : Best Volunteer Award for VISAKA

Date of Award : March 2016

Sl. No. : 2

Awarding agency : Amity University

Country : Dubai

Purpose of award : Best Paper Award

Date of Award : Feb 2019

Sl. No. : 3

Awarding agency : Bharathiar University

Country : India

Purpose of award : Appreciation award for NIRF Coordination

Date of Award : March 2019

## **Membership**

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### **Membership in Professional Bodies**

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Sl. No. : 1

Organization : IEEE

Type of Membership : Member

Period : 2012- till date

Sl. No. : 2

Organization : IEEE Computational Intelligence Society

Type of Membership : Member

Period : 2011-2013

Sl. No. : 3

Organization : ACM

Type of Membership : Member

Period : 2015 – till date

Sl. No. : 4

Organization : Computer Society of India [CSI]

Type of Membership : Life Member

Period : 2006 – till date

Sl. No. : 5

Organization : International Association for Engineers [IAENG]

Type of Membership : Life Member

Period : 2010 – till date

Sl. No. : 6

Organization : Indian Science Congress [ISCA]

Type of Membership : Member

Period : 2015-2019

Sl. No. : 7

Organization : International Association of Computer Science and Information Technology [IACSIT]

Type of Membership : Member

Period : 2010- till date

## **Visits**

Sl. No. : 1

Countries Vistes : Dubai

Duration of Visit : 4 days

Month and Year : Feb 2019

Purpose of Visit : To attend & present a paper in the International conference on Artificial Intelligence at Amity University, Dubai

## **Collaborators**

## **Others**

## Projects

Funded Projects(National Level)

- [Ongoing - 02](#)
- [Completed - 02](#)

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### 1. UGC

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**Title of the project :** Development of an efficient bio-inspired, agent based algorithmic technique for dynamic task allocation in industrial settings

**Funding Agency :** UGC

**Amount :** Rs.1.5 Lakhs

**Duration :** 2011 - 2013

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### 2. RUSA-BEICH

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**Title of the project :** Design of novel cropping patterns for yield maximization and ecology conservation using swarm intelligent techniques

**Funding Agency :** RUSA-BEICH

**Amount :** Rs. 2020 - 2021

**Duration :** Rs.6 Lakhs

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### 1. RUSA-BCTRC

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**Title of the project :** Development of Pervasive Healthcare System through Environmental Monitoring

**Funding Agency :** RUSA-BCTRC

**Amount :** Rs. 4.3 Lakhs

**Duration :** 2021 - 2023

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## **2. BU & ICMR-VCRC**

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**Title of the project :** Development of an image based identification of tick species using artificial intelligence (AI) - An alternative tool to the conventional taxonomy

**Funding Agency :** BU & ICMR-VCRC

**Amount :** Rs. 6 Lakhs

**Duration :** 2021 - 2023

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

## **Research Guidance**

- [Post-Doc](#)
- [Ph.D](#)
- [M.Phil](#)
- [M.Sc](#)

Ongoing

### **Candidate Name**

Title of the Thesis : \*\*\*\*\*

Date of Submission:

Date of Award:

Awarded

**Candidate Name**

Title of the Thesis : \*\*\*\*\*

Date of Submission:

Date of Award:

Ongoing

**Yesodha R.**

**Deepan Babu P**

**Arokiaraj S.**

**Hashni T.**

**Jijitha S.**

Awarded

Sl. No. : 1

Name of the candidate : M. Sakthi Asvini

Title of the Thesis : Design and Development of a Novel Reservoir  
Optimization Framework based on Strawberry Algorithm

Year : 2019

Sl. No. : 2

Name of the candidate : N.Thilagavathi

Title of the Thesis : Design and Development of an Effective Bio-inspired  
Methodology for Crop Planning Optimization

Year : 2020

Sl. No. : 3

Name of the candidate : Manu Rajan Nair

Title of the Thesis : PROPHETESS: A standalone tool for Prophage Loci prediction in bacterial genomes using Particle Swarm Optimization

Year : 2022

Sl. No. : 4

Name of the candidate : A.Sangeetha

Title of the Thesis : A Novel Bio-Inspired Optimization Framework for Air Pollution Monitoring and Assessment based on Automobile Emissions

Year : 2023

Ongoing

Accordion content 1.

Awarded

Sl. No. : 1

Name of the candidate : V Sathya

Title of the Thesis : Design and development of meeting scheduler using Java Agent Development Environment

Year : 2007

Sl. No. : 2

Name of the candidate : D Christy Jemima

Title of the Thesis : An automated tool for visualizing and analyzing class level synthesis in C++ language

Year : 2008

Sl. No. : 3

Name of the candidate : M Geetha

Title of the Thesis : A Multiagent coordination framework for organ transplantation system using improved Stigmergy

Year : 2008

Sl. No. : 4

Name of the candidate : K Vijaya krishnakumari

Title of the Thesis : An Agent based architecture of message filtering using spam filtering techniques: A receiver driven approach

Year : 2008

Sl. No. : 5

Name of the candidate : G Nalini

Title of the Thesis : Detection and prevention of distributed denial of service attacks using OOAD heuristics

Year : 2008

Sl. No. : 6

Name of the candidate : Meena Unni

Title of the Thesis : A comparative study of Object Oriented Design Heuristics

Year : 2008

Sl. No. : 7

Name of the candidate : N Saritha

Title of the Thesis : A multiagent based framework for dynamic matchmaking service using middle agent approach

Year : 2010

Sl. No. : 8

Name of the candidate : Manu Rajan Nair

Title of the Thesis : A network-wide file search solution using agent based peer-to-peer systems

Year : 2008

Sl. No. : 9

Name of the candidate : P Usha

Title of the Thesis : Implementation and Performance Evaluation of Content filtering techniques using Multi-agent architecture

Year : 2010

Sl. No. : 10

Name of the candidate : Lisha

Title of the Thesis : Analytical study and Implementation of OOD patterns to address design issues in soccer game environment

Year : 2010

Sl. No. : 11

Name of the candidate : P Loganayaki

Title of the Thesis : Implementation of Artificial Bee Colony Algorithm for solving Generalized Assignment Problems

Year : 2011

Sl. No. : 12

Name of the candidate : G Annie Sujitha

Title of the Thesis : A Software Agent Framework to overcome Malicious host threats and uncontrolled Agent clones

Year : 2011

Sl. No. : 13

Name of the candidate : M Divyavani

Title of the Thesis : A Competency Analysis of Ant Colony optimization clustering and K-Harmonic means clustering techniques

Year : 2011

Sl. No. : 14

Name of the candidate : D Prakash

Title of the Thesis : Comparative Study of ISH and CCF Directed Acyclic Graph Scheduling Algorithms

Year : 2012

Sl. No. : 15

Name of the candidate : T Hashni

Title of the Thesis : An Improved Nature-inspired Methodology proposed to solve Quadratic Assignment Problems

Year : 2012

Sl. No. : 16

Name of the candidate : R Yesodha

Title of the Thesis : Implementation of Firefly algorithm to solve Bin Packing Problem

Year : 2013

Sl. No. : 17

Name of the candidate : D Deepanandhini

Title of the Thesis : Solving Job Shop Scheduling Problems with Consultant  
Guided Search Metaheuristics

Year : 2013

Sl. No. : 18

Name of the candidate : P Deepan Babu

Title of the Thesis : A Novel Agent Based Architecture for effective Resource  
Negotiation and Job Scheduling in a Grid Environment

Year : 2013

Sl. No. : 19

Name of the candidate : T. T. DhivyaPrabha

Title of the Thesis : Design and Development of QoS Agent Based  
Frameworks and Algorithms for Task Scheduling in Grid

Year : 2013

Sl. No. : 20

Name of the candidate : N Thilagavathi

Title of the Thesis : Implementation of Rank based ACO to solve 2D HP  
Protein Folding Problems

Year : 2014

Sl. No. : 21

Name of the candidate : D Surya Gowri

Title of the Thesis : Edge Detection in Mammogram Images using Ant Colony  
Optimization Technique

Year : 2014

Sl. No. : 22

Name of the candidate : M.P.Saranya

Title of the Thesis : A Bat-inspired Framework for solving Disaster Inspection  
Planning Problem

Year : 2014

Sl. No. : 23

Name of the candidate : M.Sakthi Asvini

Title of the Thesis : Reservoir Release Optimization using Plant Propagation

Algorithm

Year : 2014

Sl. No. : 24

Name of the candidate : A. Krishnaveni

Title of the Thesis : Particle Swarm Optimization based Thresholding for Mammogram Image Segmentation

Year : 2015

Sl. No. : 25

Name of the candidate : D Kiruthiga

Title of the Thesis : Estimation and Forecasting of Hydropower Generation Maximization Using Particle Swarm Optimization and Artificial Neural Network

Year : 2016

Sl. No. : 26

Name of the candidate : A Sangeetha

Title of the Thesis : A Bio-inspired Methodology for Optimal Estimation and Forecasting of CO2 Emission in India

Year : 2016

Sl. No. : 27

Name of the candidate : N Sivakumar

Title of the Thesis : Development of a Novel Fertilizer Optimization Technique using Fruit Fly Algorithm

Year : 2018

Sl. No. : 28

Name of the candidate : J Christy Martina

Title of the Thesis : Soft Computing Framework for Estimation and Forecasting of Daily Global Solar Radiation

Year : 2018

Sl. No. : 29

Name of the candidate : C Chitra

Title of the Thesis : Optimal Unit commitment for Thermal Power Systems using Penguin Search Algorithm

Year : 2019

Sl. No. : 30

Name of the candidate : Tintu George

Title of the Thesis : Genetic Algorithm based multiobjective optimization framework to solve Travelling Salesman Problem

Year : 2019

Sl. No. : 31

Name of the candidate : Nayana A

Title of the Thesis : A Computational Study on Air Pollution Assessment and Forecasting in Urban Traffic Areas of Coimbatore City

Year : 2020

Sl. No. : 32

Name of the candidate : Jijitha S

Title of the Thesis : A Systematic Study on Breast Cancer Prediction using Machine Learning Techniques

Year : 2020

Sl. No. : 33

Name of the candidate : Arivuselvi A.

Title of the Thesis : An Effective Ant Colony Optimization Methodology for Virtual Machine Placement Cloud Data Center

Year : 2020

## Ongoing

Accordion content 1.

## Awarded

Sl. No. : 1

Name of the candidate : Navaneethakrishnan A., Bipin M.V., Sivasakth P.

Title of the Dissertation : IOT based Automatic Rain Wiper for Automobiles

Year : 2019

Sl. No. : 2

Name of the candidate : Monica J., Muthumeenal. L, Nivetha. M, Vinitha.D

Title of the Dissertation : IoT based Smart baby care system

Year : 2019

Sl. No. : 3

Name of the candidate : P.M.Ahash Kanna, S.Alwinsurya, R.Harikrishnan, A.Elango

Title of the Dissertation : Smart dustbin automation and control

Year : 2019

Sl. No. : 4

Name of the candidate : Yuvaraj, Yohoshiva, Praveen, Arun Chandu

Title of the Dissertation : Automated vehicle driving control and navigation system

Year : 2019

Sl. No. : 5

Name of the candidate : Anusree T.R, Athira K.B, Jainy Joy, Ragasree E.R

Title of the Dissertation : Arduino based Hand Gesture Control of Computer Monitor

Year : 2019

Sl. No. : 6

Name of the candidate : K.Nandini, K.Jayasree, M.Venugopal Reddy

Title of the Dissertation : Automated IoT based waste management system

Year : 2019

Sl. No. : 7

Name of the candidate : Chakridhar Reddy, Tholam Sravani, Kalidindi Vaishnavi

Title of the Dissertation : Smart system for water usage measurement and billing

Year : 2019

Sl. No. : 8

Name of the candidate : Vysnavi A, Kaviya M, Sriram.K, Hemalaxmi.S

Title of the Dissertation : Microcontroller based drowsiness detection in drivers to prevent accidents

Year : 2019

Sl. No. : 9

Name of the candidate : Lavanya J, Manthra K V, Kiran M

Title of the Dissertation : Smart Traffic regulation system

Year : 2019

Sl. No. : 10

Name of the candidate : P.Dhinakaran, K.Karthikeyan, G.Ajithkumar,  
S.Govardhan

Title of the Dissertation : Automated hand gloves for motion detection

Year : 2019

Sl. No. : 11

Name of the candidate : Geetu P. Shaji, Tina Babu C., Vishnu K. V.

Title of the Dissertation : Ultrasonic glasses for assistance of visually  
challenged people

Year : 2019

Sl. No. : 12

Name of the candidate : Sithara P, Mahalakashmi M, Karthikeyani M, Vidhya  
P

Title of the Dissertation : Automated gas leakage detection system

Year : 2019

Sl. No. : 13

Name of the candidate : M.Sivaraman

Title of the Dissertation : Electrical Shop Management System

Year : 2019

Sl. No. : 14

Name of the candidate : S.Susmitha

Title of the Dissertation : Applying Naïve Bayes Technique for Data Analysis

Year : 2019

Sl. No. : 15

Name of the candidate : S.Mohanapriya

Title of the Dissertation : Trade Portico

Year : 2019

Sl. No. : 16

Name of the candidate : R.Harshini

Title of the Dissertation : Student Result Management System

Year : 2019

Sl. No. : 17

Name of the candidate : M.Sowmiya

Title of the Dissertation : Power Prediction

Year : 2019

Sl. No. : 18

Name of the candidate : S.Ragul

Title of the Dissertation : Web Development for Online FM [Frequency Module]

Year : 2019

Sl. No. : 19

Name of the candidate : T.Sangamithra

Title of the Dissertation : Website for Alpha Thread Rolling

Year : 2019

Sl. No. : 20

Name of the candidate : M.Bharathimanivasagam

Title of the Dissertation : Automation Test for AtoZ Groceries Web Application

Year : 2019

Sl. No. : 21

Name of the candidate : T.Kaviya

Title of the Dissertation : Bug Tracking System

Year : 2019

Sl. No. : 22

Name of the candidate : S.Jagadheesan

Title of the Dissertation : Development of Flag Quiz Mobile Application Using Android

Year : 2018

Sl. No. : 23

Name of the candidate : M.Jothi Lakshmi

Title of the Dissertation : Android Voting System

Year : 2018

Sl. No. : 24

Name of the candidate : S.Poorani

Title of the Dissertation : Diet Consultant

Year : 2018

Sl. No. : 25

Name of the candidate : P.Muthumeena

Title of the Dissertation : College Event Sharing System

Year : 2018

Sl. No. : 26

Name of the candidate : R.Parvin Begum

Title of the Dissertation : Emergency Alert System and Personal Safety  
Application using Android

Year : 2018

Sl. No. : 27

Name of the candidate : G.Nesamalar

Title of the Dissertation : Development of Online System for Entry and  
Retrieval of Internal Assessment Marks

Year : 2018

Sl. No. : 28

Name of the candidate : S.Krishnaraj

Title of the Dissertation : Web Based Smart Audit System

Year : 2017

Sl. No. : 29

Name of the candidate : L.Kalaiselvi

Title of the Dissertation : Vehicle Sharing Application for Environmental  
Pollution Reduction

Year : 2017

Sl. No. : 30

Name of the candidate : G.Karthika

Title of the Dissertation : Design and Development of Web Portal for Sai Sourcing Service

Year : 2017

Sl. No. : 31

Name of the candidate : C.Karthick

Title of the Dissertation : Decoration Management System

Year : 2017

Sl. No. : 32

Name of the candidate : S.Karuppudurai

Title of the Dissertation : Legend World

Year : 2017

Sl. No. : 33

Name of the candidate : K.Keerthana

Title of the Dissertation : Mobile Applications for Thirukkural

Year : 2017

Sl. No. : 34

Name of the candidate : M.Maneesha

Title of the Dissertation : Key Management System

Year : 2016

Sl. No. : 35

Name of the candidate : S.Krishnaraj

Title of the Dissertation : Case Study on Vehicle Monitoring System

Year : 2016

Sl. No. : 36

Name of the candidate : G.Karthika

Title of the Dissertation : Online Bus Pass Registration and Renewal System

Year : 2016

Sl. No. : 37

Name of the candidate : M.Kathiresan

Title of the Dissertation : Stationary Management System

Year : 2016

Sl. No. : 38

Name of the candidate : P.Kumaresan

Title of the Dissertation : Case Study on Tea Factory Management

Year : 2016

Sl. No. : 39

Name of the candidate : L.Kalaiselvi

Title of the Dissertation : Feedback Report-Generation and Visualization

Year : 2016

Sl. No. : 40

Name of the candidate : C.Karthick

Title of the Dissertation : A Study on Mobile Applications used for Education

Year : 2016

Sl. No. : 41

Name of the candidate : K.Keerthana

Title of the Dissertation : Kovai City

Year : 2016

Sl. No. : 42

Name of the candidate : S.Gomathi

Title of the Dissertation : Backup and Recovery in Oracle and SQL

Year : 2015

Sl. No. : 43

Name of the candidate : A.Karthika

Title of the Dissertation : Safe and Secure Internet Banking System

Year : 2015

Sl. No. : 44

Name of the candidate : B.Keerthiga

Title of the Dissertation : Placement Consultancy Management System

Year : 2015

Sl. No. : 45

Name of the candidate : S.Gayathri

Title of the Dissertation : Industrial Manpower Resource Organizer

Year : 2015

Sl. No. : 46

Name of the candidate : A.Kumaresan

Title of the Dissertation : GK Fabs Order Management System

Year : 2015

Sl. No. : 47

Name of the candidate : K.Karthikeyan

Title of the Dissertation : E-Governance – Department of Computer Applications – Students Module

Year : 2015

Sl. No. : 48

Name of the candidate : V.Ramya

Title of the Dissertation : E-Governance – Department of Computer Applications – Faculty Module

Year : 2015

Sl. No. : 49

Name of the candidate : R.Kumar

Title of the Dissertation : E-Governance – Department of Computer Applications – Examination Module

Year : 2015

Sl. No. : 50

Name of the candidate : P.Jaya Bharathi

Title of the Dissertation : E-Governance – Department of Computer Applications – Reports Module

Year : 2015

## **Research Publication**

- [International](#)

- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books/Chapters](#)
- [Database](#)

2023

70. [Multi-Label feature selection using q-rung orthopair hesitant fuzzy MCDM approach extended to CODAS](#)

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

Mathematics and Computers in Simulation, (2023)

69. [A Novel Artificial Intelligence Framework for Analysis and Classification of Lung Cancer](#)

T. Amudha, Subhiksha R Mallya, J. Satheesh Kumar

International Journal of Human Genetics, 23(2-3), 168-176 (2023)

68. [Ensemble feature selection using q-rung orthopair hesitant fuzzy multi criteria decision making extended to VIKOR](#)

S.Kavitha, J. Satheesh Kumar, K.Janani, T. Amudha, R. Rakkiyappan

Journal of Experimental & Theoretical Artificial Intelligence, (2023)

67. [Semantic role identification for Malayalam using machine learning approaches](#)

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

Innovations in Systems and Software Engineering, (2023)

66. [PROPHETESS: A Tool for Prediction of Prophage Loci in Bacterial Genomes](#)

Manu Rajan Nair, T. Amudha

ICT Analysis and Applications. Lecture Notes in Networks and Systems, vol. 517, 681-689, Springer, Singapore (2023)

2022

65. [IoT & AI in Smart Farming: Implications and Challenges](#)

T. Hashni, T. Amudha, S. Ramakrishnan

International Conference on Communication and Electronic System, 501-

505 (2022)

64. [Intelligent Agents for Crowdsourced Software Engineering: A Survey](#)

S. Arokiaraj, T. Amudha, R. Swamynathan

ACM International Conference Proceedings, International Conference on Information Management & Machine Intelligence, article. 31, 1-8, (2022)

63. [Artificial Intelligence tools and techniques in cancer data analysis](#)

T. Amudha, Subhiksha R Mallya, J. Satheesh Kumar

Neuro Quantology, 20(9), 273-286, (2022)

62. [Multi Label Feature Selection Through Dual Hesitant q-Rung Orthopair Fuzzy Dombi Aggregation Operators](#)

S. Kavitha, K. Janani, J. Satheesh Kumar, M. M. Elkhoully, T. Amudha

IEEE Access, vol. 10, 67771-67786, (2022)

61. [Detction of Web User Clusters through KPCA dimensionality reduction in web usage mining](#)

J. Serin, J. Satheesh Kumar, T. Amudha

Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT, Springer CCIS, vol. 1591, (2022)

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

E. Kiruba Nesamalar, J. Satheesh Kumar, T. Amudha

Journal of Biomolecular Structure and Dynamics, Taylor & Francis publishers, (2022)

59. [Efficient Fuzzy C-means based Reduced Feature Set Association Rule Mining Approach for Predicting the User Behavioral Pattern in Web Usage Mining](#)

J. Serin, J. Satheesh Kumar, T. Amudha

Journal of Internet Technology (2022)

58. [A bio-inspired approach: Firefly algorithm for Multi-Depot Vehicle Routing Problem with Time Windows](#)

R. Yesodha, T. Amudha,

Computer Communications, vol. 190, 48-56, Elsevier (2022)

57. [Smart Farming Approaches Towards Sustainable Agriculture - A Survey](#)

T. Hashni, T. Amudha, S. Ramakrishnan

International Conference on Intelligent Computing, Information and Control Systems. Advances in Intelligent Systems and Computing, vol. 1415, Springer, Singapore, (2022)

56. [Maximization of Energy Production from Sholayar Hydropower Plant in India](#)

M. Sakthi Asvini, T. Amudha

Renewable Energy Optimization, Planning, and Control, Studies in Infrastructure and Control, Springer, Singapore, 129-137,(2022)

2021

55. [Preprocessing Techniques in Web Usage Mining by using Improved Session Identification Method](#)

J. Serin, J. Satheesh Kumar, T. Amudha

Design Engineering. 16106-16121 (2021)

54. [Optimized particle swarm optimization \(OPSO\) based on the global optimum solution for DNA sequencing](#)

E. Kiruba Nesamalar, J. Satheesh Kumar, T. Amudha

Turkish Journal of Physiotherapy and Rehabilitation, 32(3), 32672-32681 (2021)

53. [Artificial Intelligence and Internet of Things - The Smart City Perspective](#)

A. Sangeetha, T. Amudha

E Securing IoT in Industry 4.0 Applications with Blockchain, CRC Press, 1st Edition, Taylor and Francis Group, Auerbach Publications,ISBN: 9781003175872, (2021)

52. [Artificial Intelligence: A Complete Insight](#)

T. Amudha

Artificial Intelligence Theory, Models and Applications, CRC Press, 1st Edition, Taylor and Francis Group, Auerbach Publications, ISBN 9781032008097, (2021)

51. [Artificial Intelligence in Agriculture](#)

M. Sakthi Asvini, T. Amudha

Artificial Intelligence Theory, Models and Applications, CRC Press, 1st Edition, Taylor and Francis Group, Auerbach Publications, ISBN 9781032008097, (2021)

50. [Influence of Artificial Intelligence in Clinical and Genomic Diagnostics](#)

E. Kiruba Nesamalar, J. Satheesh Kumar, T. Amudha

Artificial Intelligence Theory, Models and Applications, CRC Press, 1st Edition, Taylor and Francis Group, Auerbach Publications, ISBN 9781032008097, (2021)

49. [Influence of an efficient Hierarchical Clustering Algorithm in analyzing Cancer affected DNA Dataset](#)

E. Kiruba Nesamalar, J. Satheesh Kumar, T. Amudha Journal of Physics: Conference Series, 1998(1), 012030 (2021)

48. [Optimizing Neural Network Parameters for Effective Classification of Benign and Malicious Websites](#)

P. Balamurugan, T. Amudha, J. Satheesh Kumar, M. Sornam, Journal of Physics: Conference Series, 1998(1), 012015 (2021)

47. [A systematic study on bio-inspired framework for fertilizer optimization](#)

T. Amudha, N.Thilagavathi, A.Sangeetha

International Journal of Agricultural Technology, 17(4), 1287-1304 (2021)

46. [A Novel Bio-Inspired Optimization Framework for Effective Crop Land Allocation and Utilization](#)

N.Thilagavathi, S. Ramakrishnan, T. Amudha

International Conference on Intelligent Engineering and Management, 182-187, 9445317 (2021)

45. [A Novel Agent-Based Methodology for Job Scheduling in Cyber Physical Systems](#)

P. Deepan Babu, T. Amudha, S. Ramakrishnan

Lecture Notes in Networks and Systems, 166, 445-455 (2021)

44. [An efficient anti-malware system with multilayer perceptron and discriminative common vector](#)

P. Balamurugan, M. Sornam, T. Amudha, J. Satheesh Kumar

Turkish Journal of Computer and Mathematics Education, 12(12), 929-937

(2021)

43. [Prophage Loci Predictor for Bacterial Genomes](#)

Manu Rajan Nair, T. Amudha

Journal of Bioinformatics and Computational Biology, 19(2), 2050049 (2021)

42. [An effective ant colony optimization methodology for virtual machine placement in cloud data centre](#)

A. Arivuselvi, T. Amudha, P. Deepan Babu

Turkish Journal of Computer and Mathematics Education, 12(10), 3460-3467 (2021)

41. [A particle swarm optimization methodology to design an effective air quality monitoring network](#)

A. Sangeetha, T. Amudha

Environment, Development and Sustainability, 23(3), (2021)

40. [A novel agent-based methodology for job scheduling in cyber physical systems](#)

P. Deepan Babu, T. Amudha, S. Ramakrishnan

Lecture Notes in Networks and Systems, Springer, 166 (2021)

2020

39. [Breast Cancer Prognosis using Machine Learning and Genetic Algorithm: Experiment on six different datasets](#)

S. Jijitha and T. Amudha

Lecture Notes on Data Engineering and Communications Technologies, pp. 703 – 711, Springer, 53(2020)

38. [Prophage loci predictor for bacterial genomes](#)

Manu Rajan Nair, T. Amudha

Journal of Bioinformatics and Computational Biology (2020)

2019-2004

37. [A novel methodology for optimal land allocation for agricultural crops using social spider algorithm](#)

N. Thilagavathi, T. Amudha

PeerJ 7:e7559 (2019)

[36. Breast cancer prognosis using machine learning and genetic algorithm: experiment on six different datasets](#)

[S. Jijitha and T. Amudha](#)

[Evolutionary Computing and Mobile Sustainable Networks, Springer 53, 703 – 711 \(2020\)](#)

[35. Genetic algorithm based multi objective optimization framework to solve travelling salesman problem](#)

[Tintu George and T. Amudha](#)

[Algorithms for Intelligent Systems, Springer, 141-151 \(2020\)](#)

[34. Enhancement of firefly technique for effective optimization of multi-depot vehicle routing](#)

[R. Yesodha, T. Amudha](#)

[International journal of Innovative Technology and Exploring Engineering, 8\(11\), 2346-2353 \(2019\)](#)

[33. Optimal unit commitment for thermal power systems using penguin search algorithm](#)

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