National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr. U. Srinivasulu Reddy has received his Ph.D. in 2013, from Department of Computer Applications, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India. He started his academic carrier as Lecturer in the Department of Computer Science, Bishop Heber College (Autonomous), Tiruchirapalli from 2003-2006. He joined NIT Trichy as an Assistant Professor in 2008 currently he is Associate Professor. His research interest lies in applying various artificial intelligent approaches to extract useful patterns from different facets of societal challenges of high demand with economic benefit. The main aim of his work is to develop machine learning and deep learning models for various domains like agriculture bioinformatics, banking, telecom, and healthcare. With this motivation, he has established *"Machine Learning and Data Analytics Lab"* in 2015 and he is a core team member of Center of Excellence in Artificial Intelligence established in 2020. For his credit he has produced 7 doctoral till date. He received various research grants worth of Rs.127 lakhs from various funding agencies such as Indian Space Research Organization (ISRO), Naval Research Board, Defense Research and Organization (DRDO), Department of Science and Technology (DST) and Department of Electronics & Information Technology (DeiTY). He has published more than 30 journal articles and 2 books chapters. Dr. Reddy has delivered more than 80 invited talks in national and international conferences, workshops and faculty development programs. He is life member of Computer Society of India (CSI), Annual member of ACM, IEEE and Analytical Society of India.

1.	Name:	Dr. U. Srinivasulu Reddy
2.	Designation:	Associate Professor
3.	Office Address:	#104, Lyceum Block, Department ofComputer Applications, NIT, Trichy-15
4.	Telephone (Direct) (Optional): Telephone : Extn (Optional):	04312503746
	Mobile (Optional):	8438207784
5.	Email (Primary): usreddy@nitt.edu	Email (Secondary) : usrinivasulureddy@gmail.com
6.	Field(s) of Specialization:	Data Analytics, Machine Learning, Artificial Intelligence and Bioinformatics

7.   Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT, Trichy	2022	Till Date
Assistant Professor	NIT, Trichy	2008	2022
Full-Time Ph.D., Scholar	NIT, Trichy	2006	2008
Lecturer	Bishop HeberCollege, Trichy	2003	2006

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	National Institute of Technology, Tiruchirappalli	2013	9.46	Computer Applications
M. Phil.,	Bharathidasan University, Tiruchirappalli	2005	84	Computer Science
M. C. A.	Bharathidasan University, Tiruchirappalli	2003	82	Computer Applications
BSc., (Maths, Statistics, Comp. Sciences)	S. V. University, Tirupati	2000	80	Triple Major

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre /Institution	From	To
Hostel Convener- Associate Dean (Students' Welfare)	NIT, Trichy	2021	Till date
Associate Dean (Students' Welfare)	NIT, Trichy	2015	2017
PAC Chairman	NIT, Trichy	2020	2021
Coordinator – First Year Orientation	NIT, Trichy	2020	2021
Co-Coordinator(s)	NIT, Trichy	2021	2021
Computer Lab monitoring committee	NIT, Trichy	2020	2021
FIST project task force committee	NIT, Trichy	2020	2021
Department Counselling and Guidance committee	NIT, Trichy	2021	2021
PhD Admission Committee	NIT, Trichy	2020	2021
Member-Safety and Security Advisory Committee	NIT, Trichy	2020	2021
PAC Chairman	NIT, Trichy	2020	2021
Coordinator – First Year Orientation	NIT, Trichy	2020	2021
Coordinating for MCA Syllabus Revision	NIT, Trichy	2021	2021
Computer Lab Monitoring Committee	NIT, Trichy	2020	2021
FIST project task force committee	NIT, Trichy	2020	2021
PhD Admission Committee	NIT, Trichy	2020	2021
Department Counselling and Guidance committee	NIT, Trichy	2021	2021
Member-NITT-IIFPT Collaboration	NIT, Trichy	2019	2021

PAC Chairman	NIT, Trichy	2019	2019
Coordinator – First Year Orientation	NIT, Trichy	2019	2019
PhD Admission Coordinator	NIT, Trichy	2018	2019
PAC Chairman	NIT, Trichy	2018	2019
Coordinator – First Year Orientation	NIT, Trichy	2019	2019
Faculty In-Charge for Apheksha Club	NIT, Trichy	2017	2021
Member- Library Advisory Committee	NIT, Trichy	2017	2020
Faculty In-Charge for ACM Student Chapter	NIT, Trichy	2017	2021
Faculty In-Charge for Furniture Purchase	NIT, Trichy	2017	2017
Coordinator for Counselling session	NIT, Trichy	2017	2017
FIST Project Task Committee Member	NIT, Trichy	2017	2017
Faculty In-Charge for Akshara	NIT, Trichy	2017	2017
Faculty In-Charge for ACM Student Chapter	NIT, Trichy	2016	2017
Associate Dean	NIT, Trichy	2015	2017
Faculty In-Charge for Leo Club	NIT, Trichy	2015	2016
Faculty In-Charge for Rotary Club	NIT, Trichy	2015	2016
Faculty Advisor for NITTFEST	NIT, Trichy	2015	2016
Course Co-Ordinator	NIT, Trichy	2015	2016
PAC Chairman	NIT, Trichy	2015	2015
Faculty In-Charge for Apheksha Club	NIT, Trichy	2014	2017
Faculty In-Charge for Discipline Committee	NIT, Trichy	2014	2015
Faculty Advisor,	NIT, Trichy	2014	2015
Class Committee Chairman	NIT, Trichy	2014	2014
Faculty In-Charge for Stock Verification	NIT, Trichy	2013	2016
Certificate verification Officer	NIT, Trichy	2013	2014
PAC Chairman	NIT, Trichy	2013	2014
Member-Kakodkar Committee	NIT, Trichy	2013	2014
Member-Admission Committee	NIT, Trichy	2013	2014
Faculty- in Charge for MSC-ORECCA	NIT, Trichy	2012	2015
NBA- Committee	NIT, Trichy	2012	2013
Faculty in-Charge for Computer Lab	NIT, Trichy	2012	2013
Purchase Committee	NIT, Trichy	2012	2012
Associate Dean(Students Welfare)	NIT, Trichy	2015	Till Date
Faculty In-Charage for Pragyan	NIT, Trichy	2010	2011
PAC Chairman	NIT, Trichy	2009	2010
Hospitality Committee Member	NIT, Trichy	2008	2017
Warden	NIT Hostels, NIT, Trichy	2008	2015
Resident Students Counsellor	NIT Hostels, NIT, Trichy	2007	2008

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member, Academic Counsel	Bishop Heber College(Autonomous), Trichy	2022	Till date
Subject Expert-Board of Studies	BESTIU, Anantapur	2021	Till

(BoS)			date
Resource Person	Cauvery College for Women, Trichy	2021	2021
Technical Committee	VNR Institute and Technology, Hyderabad	2021	2021
Guest Speaker	The Oxford College of Engineering, Bangalore	2021	2021
Technical Committee	AIAA, Dubai	2021	2021
Speaker	PSNA College of Engineering and Technology, Dindigul	2021	2021
Resource Person	PSNA College of Engineering and Technology, Dindigul	2021	2021
Technical Committee	GLA University, Madura	2021	2021
Technical Programme Committee	NIT, Goa	2021	2021
Resource Person	Vellalar College for Women (Autonomous), Erode	2020	2020
Curriculum Advisory Committee	Kristu Jayanthi College, Bangalore	2020	Till date
Resource Person	Saranathan College of Engineering, Tiruchirappalli	2020	2020
Resource Person	Vellalar College for Women (Autonomous), Erode	2020	2020
Subject Expert-Board of Studies (BoS)	K. Ramakrishnan College of Technology, Trichy	2020	Till date
Resource Person	St Joseph College (Autonomous), Tiruchirappalli	2020	2020
Resource Person	CIT, Coimbatore	2020	2020
Resource Person	Kristu Jayathi College(Autonomous) Bangalore	2019	2019
Invited Speaker	Innovinc International, Germany	2019	2019
Resource Person	Vellalar College for Women (Autonomous), Erode	2019	2019
Resource Person	Shanmuganathan Engineering College, Pudukottai	2019	2019
Advisory Committee	Bishop Heber College (Autonomous), Tiruchirappalli	2019	2019
Resource Person	Kalasalingam University	2018	2018
Subject Expert-Board of Studies (BoS)	Bishop Heber College (Autonomous), Tiruchirappalli	2018	2021
Subject Expert-Board of Studies (BoS)	Bishop Heber College (Autonomous), Tiruchirappalli	2018	2018
Invited Speaker	M.A.M. College of Engineering, Tiruchirappalli	2017	2017
Chief Guest	M.A.M. College of Engineering, Tiruchirappalli	2017	2017
Chief Guest	K. Ramakrishnan College of Technology, Trichy	2017	2017
Keynote Speaker	Anna University, BIT Campus, Tiruchirappalli	2016	2016
Chief Guest	K. Ramakrishnan College of Technology, Trichy	2015	2015
Resource Person	Theivanai Ammal College for Women, Villupuram	2015	2015
Chief Guest	Bishop Heber College (Autonomous), Tiruchirappalli	2015	2015
Faculty in- Charge	NIT, Trichy	2015	2015
Invited Speaker	Dayananda Sagar University, Bangalore	2015	2015
Resource Person	Kalasalingam University, Krishnakovil	2014	2014

RECAL Treasurer	NIT, Trichy	2016	2018
Students Service Center Advisory Committee Member	Bishop Heber College, Trichy	2013	2015
Resource Person	National Engineering College, Kovilpatti	2013	2013
AIEEE Admission Work	NIT, Pondicherry	2010	2010

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2021	Best Performer Award	NIT Trichy
2020	Best Performer Award	NIT Trichy
2019	Best Performer Award	NIT Trichy
2018	Best Researcher Award	NIT Trichy
2017	Second Best Paper Award	IEEE- ICCIDS17
2017	Best paper Award	IEEE- ICCIC17

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
1991	Residential Care Program	KNH, Germany	1991	2003

13. Details of Academic Work
   (i) Curriculum Development

Sl. No.	Course Name	Programme
01.	Introduction to Data Analytics	M. Tech., Data Analytics
02.	Probability and Statistical Methods	M. C. A.
03.	Resource Management Techniques	M. C. A.
04.	Data Mining Techniques	M. C. A.
05.	Soft Computing	M. C. A. (Elective)
06.	Bioinformatics	M. C. A. (Elective)
07.	Big Data Management	M. C. A. (Elective)
08.	Evolutionary Computing	M. C. A. (Elective)

   (ii) Courses taught at Postgraduate and Undergraduate levels

Sl. No.	Courses Taught	Postgraduate Level
02.	Probability and Statistical Methods	M. C. A. & M.Sc.,(OR & CA)
03.	Resource Management Techniques	M. C. A.
04.	Data Mining Techniques	M. C. A.
05.	Data Analytics	M.Sc.,(OR & CA)
06.	Advanced Data Analytics	M.Sc.,(OR & CA)
07.	Operating System	M.Sc.,(OR & CA)

Sl. No.	Courses Taught	Undergraduate Level
01.	Programming in C	B. Tech.

(iii)   Projects guided at Postgraduate level

Title	Student Name	Year
Dragon Test Automation System	Nilesh Sironja	2014
Cross War (An Old Strategic Game of 2 Players)	Sathish S	2014
Risk Factor Prediction Tool for Diseased	Manju Subasi C	2014
ETL for Remote Files Over FTP/SFTP	Anshu Goel	2014
Investment Fore Cast Application Using Temporal Data Mining	Kavitha P	2014
Remote Learning & Collaboration at Low Bandwidth	Rakhi Bansal	2014
Automation of Software Deployment	Shantha Kumar R	2014
Replacement for Lab Equipment System	Karunakarn K	2014
Customer Segmentation Based on Customer Behavior	Hamsa Sri A	2015
NITT Transport Management System	Himanshu Shekhar	2015
Pivot Architecture	Rajeev Raushan Prasad	2015
Pricing Alert System	Vikash Kumar	2015
Customer Information Management System Using MDM	Ku Savita Namdev	2015
NextGen CCM	Sukhmeet Kour Bha	2015
Automation in Financial Reports	Vikas Meghwani	2015
Port/Protocol Based Application Discovery & Monitoring for Enterprise Networks	Vishal Gupta	2016
Supply Chain Management System	Uday Ranjan	2016
Smart Study Tutorial Point	Jitendra Nagar	2016
Detection of Human Emotion	Malkhan Singh	2016
Feature Test Finder	Arihant Kumar Jain	2016
Facial Expressions Analysis	Akshay Gogte	2016
Thoracic Surgery Analysis and Prediction	Benil S	2017
Online Banking System	Rohit Verma	2017
Classified Real Estate Android Application With BackEnd Website	Javendra Kumar Jayaswal	2017
MDM Implementation	Devendra Yadav	2017
Campaign Centralization	Anjali Maheshwari	2017
QRadar Web Services	Prateek Soni	2017
Outbound Hardware Monitoring Server	Sonali Nagliya	2017
Java Software Development Kit for One M2M Node	Bheemraj Saini	2017
Object Recognition Using Deep Learning	Vaishali Kamboj	2018
Agriculture Information System (Vegetables)	Pranay Nagar	2018
Spam Detection and Cognitive Filtering	Surya Gupta	2018
Credit Scoring System	Aman Garg	2018
Default Loan Prediction	Jyothi Silale	2018

Speech Recognition System Using Deep Learning	Lakesh Kumar Patle	2018
HR-Payroll Automation Using Machine Learning	Lavish Dayar	2018
Object Detection and Recognition Using Deep Learning	Raghul Bhandari	2018
Vivriti Client Information Data Lake	Yogesh Sthapak	2018
A Smart Approach for Data Preparation on Data Mining	Amani Anord	2018
Cognitive Behaviour of Elder People Using Smart Phone	Archana AD	2018
Elite Data Persistence Service	Suraj Bhan Singh	2019
Customer Spending Behavior Credit Card Fraud Detection	Abhishek Dubey	2019
Customer Retention Analysis in GBT	Suman Choudhary	2019
Feature Engineering Based Credit Card Fraud Detection	Jitendra Mahor	2019
Customer Service Management Application	Shubham Sharma	2019
Workstation Mapping	Jaydeep Rathore	2019
Motif Discovery in Time Series Data Using Firefly Algorithm	Renuka Gaikwad	2019
Structured Motif Discovery Using Firefly Algorithm	Khushbu Patidar	2019
Informatica Administrator Services Integration	Avdesh Kumar Patel	2019
Cost Sensitive Random Forest Credit Card Fraud Detection	Dakshayani Singaraju	2019
Automated Detection of Different Classes of Arrhythmia Using Deep Learning	Vandana Singh	2019
IoT Based Industrial Automation Using Connected Sensors	Jeyakumar	2019
Talent Scout Management Portal With Micro Services (Admin Dashboard/ Manage Drive)	Priyanka Koushal	2020
Soil Quality Assessment for Predictive Analysis Using Machine Learning	Mrinal Gautham	2020
Machine Learning Algorithms for Defect Analysis in Thermographic Images	Surendra Lodhi	2020
Talent Scout Management Portal Using Microservices (Scheduling and Generating Report of Panelist)	Rahul Ahirwar	2020
Knowledge Level Management Tools (Human Resource Management Tool)	Deepak Parmar	2020
Sentiment Analysis Using Twitter Dataset	Sanjay Singh	2020
Music Recommendation System	Shubham Yadav	2020
Weld Defect Detection Using Machine Learning and Deep Learning Technique	Chirantan Bhattacharya	2020
Tomato Plant Diseases Recognition Using CNN	Shailam Kumar	2020
Tomato Plant Diseases Recognition Using CNN	Soham Ghatak	2020
Outsourcer	Deepak Kumar	2020
Automated Jenkins Pipeline for Running Sanity &	Dhirendra Gurjar	2020

Functional Tests for Vantage on VMWare		
Covid 19 Social Distancing and Drones	Vikas Manger	2020
Banana Leaf Disease Detection Using Deep Learning Model	Minkesh Gupta	2020
Covid 19 Hotspot Detection Using Google Maps in India	Ankit Goswami	2021
Skin Cancer Detection System	Devam Singh	2021
Chatbot for Applications Log Analysis and Alerting Management	Diskha Muchhala	2021
Nitty Gritty of Campaign Implementation	Jay Singh Gaud	2021
Real-Time Human Detection & Counting	Mamta Paitdar	2021
Entity Resolution on Transaction Data	Richa Agarwal	2021
Audit Queue Service (Service-to-Service)	Shivam Tiwari	2021
Collective Insights Platform	Shubham Pawr	2021
Tata Digital TCP (Tata Consumer Platform)	Swati Tawar	2021
Lab Sequence Automation	Cheshta Keshari	2021
E-Commerce Demand Forecasting Web Application	Tripty Dubey	2021
Estimation Of Soil Moisture Using Hyper Spectral Image	Rajneesh	2021
Data Augmentation for Machine Fault Diagnosis From Vibration Signals	Divya Anwesh Sahu	2021
Crop Classification Using Satellite Images	Miriyala Gowtham Budda	2021

(iv) Other contribution(s)

- ACM Student Chapter Staff Advisor from 2014 onwards

- ORECA Staff Advisor for four years

- Giving guidance and counseling and guidance for the needy students

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Development of AI based Weapon Logistics Module	Defense Research and Development Organization (DRDO)	2019	2020	On-going
Hunting Representative Sensors and Constructing Regression Model Between Engine Sensor Outcomes using Machine Learning	Gas Turbine Research Establishment (GTRE)-DRDO	2020	2022	On-going
Artificial Intelligence	Naval Research Board	2020	2022	On-going

based ILMS for Indian Navy (Air)	(NRB), DRDO			
Health Monitoring and Fault diagnosis of Turbo pumps of Liquid Rocket Engines using Deep Learning Neural Networks	Indian Space Research Organization (ISRO)	2019	2020	On-going
Visvesvaraya PhD Scheme for Electronics and IT	Department of Electronics and Information Technology (DeitY)	2014	2019	Completed
Object Shape Descriptor for Tracking and Detection of Insects in the Crop	Department of Science and Technology (DST), WOS-B	2016	2019	Completed

15. Number of PhDs guided/ongoing

Sl. No.	Name of the Ph.D. Scholar	Title of Ph.D. Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
01	S. Akila	Cost-Sensitive Credit Card Fraud Detection Using Bagged Ensemble Models	Supervisor	2019
02	N. Kumaran	Multiple Action Recognition in Video sequences based on Machine Learning and Intelligent Regression Model	Supervisor	2020
03	G. Raja	Fragment Assembly Based Fast and Optimal DNA Sequencing	Supervisor	2020
04	K. Thenmozhi	Machine Learning and Image Processing for Classification, Detection and Recognition of Insects in Agricultural Field Crops	Supervisor	2021
05	V. Manojkumar	Efficient Authentication Protocols for Distributed Mobile Cloud and Internet of Things Environment	Supervisor	2021
06	Ch. Venkata RamiReddy	Basic and Compound Facial Expression Recognition using Machine Learning Models	Supervisor	2021
07	Abinash Mishra	Machine Learning Approaches Towards the Selection of Best Wart Treatment Method	Supervisor	2022
08	M. Siva Kumar	Aspect based Sentimental Analysis of Customer Reviews using Machine Learning	Supervisor	2022

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
January 7-10, 2008	A Parallel Combinatorial Algorithm for Subtle Motifs	International	Participant	Bharathidasan University Tiruchirappalli	Third Indo US Lecture Series on Discrete Mathematical Chemistry Special Lectures on Chemoinformatics and Bioinformatics
July 25-26, 2008	Particle Swarm Optimization based Motif Finding	International	Participant	Loyola College, Chennai	International Conference on Mathematics and Computer Science
January 18-20, 2010	Particle Swarm Optimization based Motif Finding	International	Participant	IISC, Bangalore	Asia Pacific Bioinformatics Conference (APBC2010)
April, 16-19, 2013	A Particle Swarm Optimization Solution for Challenging Planted (l, d)-Motif Problem	International	Participant	Singapore	2013 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)
March 4-6, 2013	Finding Gapped Motifs with variable length gaps in unaligned	International	Participant	Honolulu, Hawaii, USA	5th International Conference on Bioinformatics and Computational

	DNA sequences using Particle Swarm Optimization Technique				Biology (BICoB)
December 3-5, 2014	A survey on NGS - Short Read Alignment in High Performance	International	Participant	Kochi, Kerala,	International Conference on Information and Communication Technologies, ICICT2014

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Workshop on Big Data Analytics	National	December 12 - 13, 2015	Co-ordinator	National Institute of Technology, Tiruchirappalli
Big Data Analytics: Tools and Techniques	National	June 8 - 12 , 2015	Co-ordinator	National Institute of Technology, Tiruchirappalli
DST Sponsored 3 Days Workshop on Data Science Research	National	November 3 – 5, 2016	Co-ordinator	National Institute of Technology, Tiruchirappalli
Blockchain Technologies Business Innovation and Applications	National	March 11 – 15, 2019	Co-ordinator	Anand Institute of Higher Technology, Chennai
Robotic Process Automation	National	March 11 – 15, 2019	Co-ordinator	Anand Institute of Higher Technology, Chennai
Cloud Computing and Its Applications	National	March 11st – 15th, 2019	Co-ordinator	Anand Institute of Higher

				Technology, Chennai
Data Science Machine Learning and Artificial Intelligence With Hands on Training	National	March 11st – 15th, 2019	Co-ordinator	Anand Institute of Higher Technology, Chennai

18. Invited Talks delivered

Topic	Date	Inviting Organization
FDP on Tips and Best Practices for Writing a Scientific Paper	08.06.2021	Cauvery College for Women, Trichy
FDP on Advances in Artificial Intelligence and Machine Learning	29.07.2021	The Oxford College of Engineering, Bengalure
AICTE Sponsored FDP on Computer Vision and Image Processing	11.02. 2021	PSNA College of Engineering and Technology, Dindigul
AICTE -ISTE Sponsored a Hands on Training Programme on Nature Inspired Techniques for Medical Image Analysis and Its Real Time Applications	24.02.2021	PSNA College of Engineering and Technology, Dindigul
AICTE Sponsored STTP on Machine Learning Techniques for Medical & Health Care Applications	31.07.2020	Vellalar College for Women (Autonomous), Erode
AICTE Sponsored STTP on Big Data Analytics	03.08.2020	Saranathan College of Engineering, Tiruchirappalli
National Seminar on the Future With Artificial Intelligence	13.02.2020	St Joseph College (Autonomous), Tiruchirappalli
Atal Online FDP Programme on Signal Processing and Machine Learning Algorithms for Biomedical Data Analytics in Health Care Applications	21.09.2020	CIT, Coimbatore
3rd National Conference on Computational Intelligence (NCCI-2019)	06.12.2019	Kristu Jayathi College(Autonomous), Bangalore
Sustainable Agriculture & Food Systems Summit (SAFS-2019), Berlin, Germany	26.09.2019	Innovinc International, Germany
UGC-CPE Funded National Seminar on Emerging Trends and Predictions of IoT	22.02.2019	Vellalar College for Women (Autonomous), Erode
Guest Lecture on Machine Learning Techniques	10.01.2019	Shanmuganathan Engineering College, Pudukoai
2nd International Conference on Applied Soft Computing Techniques	23.03.2018	Kalasalingam University
AICTE Sponsored National Seminar on Multimedia Information Retrial Research Issues	25.09.2017	M.A.M. College of Engineering, Tiruchirappalli
MAM KNOTZ-2K17	19.09.2017	M.A.M. College of Engineering, Tiruchirappalli
Mastro CSE-17, Association Inauguration	05.07.2017	K. Ramakrishnan College of Technology, Trichy

Bioinformatics for Big Data	23.09.2017	SASTRA University, Thanjavur
DBT 8 Days National Level Workshop on Modernization in Bioinformatics and Big Data (MIBAB-2016)	26.12.2016	Anna University, BIT Campus, Tiruchirappalli
Research Issues in Big Data	10.03.2015	KRCT, Trichy
Successful Life	12.03.2015	Bishop Heber College, Trichy
Swarm Intelligence Techniques	18.10.2015	SASTRA University
Pattern Recognition in biological signals using Computational Intelligence Techniques	25.09.2015	KPR Engineering College, Coimbatore
Big Data Analytics	25.02.2015	Sudharsan Engineering College
National Conference on Innovations and Computing NCIC-15	10.03.2015	K. Ramakrishnan College of Technology, Trichy
National Conference on Big Data & Cloud Computing	21.02,2015	Theivanai Ammal College for Women, Villupuram
Bio Heberians Meet 2015	28.02.2015	Bishop Heber College (Autonomous), Tiruchirappalli
National Conference on Big Data and Data Science (BADS-2015)	21.12.2015	Dayananda Sagar University, Bangalore
Big Data Analytics	09.09.2014	KRCT, Trichy
NAAC Sponsored Two Days National Workshop on Role of Information Communication technology (Green Cloud-Green Data-Green Networking)	05.07.2014	Kalasalingam University, Krishnakovil
Recent Advances and Emerging Trends in Life Science Research in BIOCLOUD Bioinformatics Using Cloud Computing Technologies	13.09.2013	National Engineering College, Kovilpatti

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	CSI	I1153679 2009

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	5 Days	IEEE – CIBCB International Conference
South Korea	7 Days	International Conference

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	doi	Impact Factor of the Journal (Optional)
P. Theepalakshmi, U. Srinivasulu Reddy	Freezing firefly algorithm for efficient planted (ℓ, d) motif search	Medical and Biological Engineering and Computing	60	511-530	2022	DOI: 10.1007/s11517-021-02468-x	2.602
Karthick VSS, Abinash Mishra, U. Srinivasulu Reddy	Credit Card Fraud Detection by modelling Behaviour Pattern using Hybrid Ensemble model	Arabian Journal for Science and Engineering	47	1987-1997	2021	https://doi.org/10.1007/s13369-021-06147-9	2.334
Manojkumar Vivekanandan, V. N. Sastry, U. Srinivasulu Reddy	MAPMCECCM: A Mutual Authentication Protocol for Mobile Cloud Environment using Chebyshev Chaotic Map	Telecommunication Systems	78	477-496	2021	https://doi.org/10.1007/s11235-021-00809-7	2.314
M. Sivakumar and U. Srinivasulu Reddy	Aspect Based Sentiment Analysis of Mobile Phone	International Journal of Data Science and	12	355-367	2021	https://doi.org/10.1007/s41060-021-00277-x	-

	Reviews using LSTM and Fuzzy Logic	Analytics					
Abinash Mishra, U. Srinivasulu Reddy	A Novel Probabilistic based Deep Neural Network: Towards the Selection of Wart Treatment	Cognitive Computation	13	1-17	2021	https://doi.org/10.1007/s12559-021-09882-1	5.418
Manojkumar Vivekanandan, V. N. Sastry, U. Srinivasulu Reddy	Blockchain based Privacy Preserving User Authentication Protocol for Distributed Mobile Cloud Environment	Peer-to-Peer Networking and Applications	14	1572-1595	2021	https://doi.org/10.1007/s12083-020-01065-3	3.307
Raja, Govindan, and U. Srinivasulu Reddy	DNA Fragment Assembly using Hybridized Catfish PSO	International Journal of Software Innovation	9	69-80	2021	10.4018/IJSI.2021040104	-
Ch. Venkata Rami Reddy and U. Srinivasulu Reddy	Virtual Facial Expression Recognition using deep CNN with Ensemble Learning	Journal of Ambient Intelligence and Humanized Computing	12	10581-10599	2021	10.1007/s12652-020-02866-3	7.104
Kumaran N, Srinivasulu	Classification of human	IET Image	15	65-76	2021	10.1049/ipr2.12006	2.373

Reddy U	activity detection based on an intelligent regression model in video sequences	Processing						
K Thenmozhi, U. Srinivasulu Reddy	Machine learning ensemble with image processing for pest identification and classification in field crops	Neural Computing and Applications	33	7491–7504	2021	https://doi.org/ 10.1007/s0052 1-020-05497-z	5.606
K Thenmozhi, U. Srinivasulu Reddy	Insect classification and detection in field crops using modern machine learning techniques	Information Processing in Agriculture	8	446-457	2021	https://doi.org/ 10.1016/j.inpa. 2020.09.006	3.11
Manojkumar Vivekanandan, V. N. Sastry, U. Srinivasulu Reddy	BIDAPSCA 5G: Blockchain based Internet of Things (IoT) device to device authentication protocol for smart city applications using 5G technology	Peer-to-Peer Networking and Applications	14	403-419	2021	https://doi.org/ 10.1007/s1208 3-020-00963-w	3.307
Abinash Mishra, U. Srinivasulu	Machine Learning Approach	Network Modeling	9	1-14	2020	https://doi.org/ 10.1007/s1372 1-020-00246-7	-

Reddy	for Wart Treatment Selection: Prominence on Performance Assessment	Analysis in Health Informatics and Bioinformatics					
U. Srinivasulu Reddy, Michael Arock, and A. V. Reddy	Discovering of Gapped Motifs using Particle Swarm Optimization	International Journal of Computational Intelligence in Bioinformatics and Systems Biology, (IJCIBSB)	2	1-21	2020	10.1504/IJCIBSB.2020.106858	-
Ch Venkata Rami Reddy, U. Srinivasulu Reddy and K.V. Krisha Kishore	Deep CNN: A Machine Learning Approach for Driver Drowsiness Detection based on Eye State	Revue d'Intelligence Artificielle	33	461-466	2019	https://doi.org/10.18280/ria.330609	1.163
K Thenmozhi, U Srinivasulu Reddy	Crop pest classification based on deep convolutional neural network and transfer learning	Computers and Electronics in Agriculture	164	104906-104917	2019	https://doi.org/10.1016/j.compag.2019.104906	5.565
Manojkumar Vivekanandan, V. N. Sastry, U. Srinivasulu	Efficient user authentication protocol for distributed	Journal of Ambient Intelligence and Humani	11	1933-1956	2019	https://doi.org/10.1007/s12652-019-01467-z	7.104

Reddy	multimedia mobile cloud environment	zed Computing					
D Mahesh Babu, Ch Venkata Rami Reddy, U. Srinivasulu Reddy	An Automatic Driver Drowsiness Detection System using DWT and RBFNN	International Journal of Recent Technology and Engineering (IJRTE)	7	41-44	2019	E10080275S419	-
Ch Venkata Rami Reddy, U. Srinivasulu Reddy and K.V. Krisha Kishore	Facial Expression Classification using NLPCA and SVM with Hybrid Kernel	Traitement du Signal	36	13-22	2019	DOI: 10.18280/ts.360102	2.589
Raja, Govindan, and U. Srinivasulu Reddy	Maximum Exact Matches for High Throughput Genome Subsequence Assembly	IETE Journal of Research	68	283-290	2019	https://doi.org/10.1080/03772063.2019.1603085	2.33
Akila, S., U. Srinivasulu Reddy	Parallel and Incremental Credit Card Fraud Detection Model to Handle Concept Drift and Data Imbalance	Neural Computing and Applications	31	3-14	2019	https://doi.org/10.1007/s00521-018-3633-8	5.606
Kumaran N, U. Srinivasulu Reddy	Multiple Action Recognition for Human Object with Multiple Action Recognition for Human Object with	International Journal of Innovati	8	1118-1128	2019	F3483048619/19©BEIESP	-

	Motion Video Sequence using the Properties of HSV Color Space Applying with Region of Interest	ve Technology and Exploring Engineering					
Akila and U. Srinivasulu Reddy	Cost Sensitive Risk Induced Bayesian Inference Bagging (RIBIB) for Credit Card Fraud Detection	Journal of Computational Science	27	247-254	2018	https://doi.org/ 10.1016/j.jocs. 2018.06.009	3.976,
Raja, Govindan, and U. Srinivasulu Reddy	Genome Subsequences Assembly Using Approximate Matching Techniques in Hadoop	International Journal of Knowledge Discovery in Bioinformatics (IJKDB)	07	83-97	2017	DOI: 10.4018/ IJKDB.201707 0105	-
U. Srinivasulu Reddy and M. Sivakumar	Sentiment Mining using Online Social Media with Big Data	International Journal On Recent & Innovative Trend In Technology	01	1-12	2015		-
G. Raja and U. Srinivasulu Reddy	A survey on NGS - Short Read Alignment	International Journal of	03	26-32	2015	eISSN: 2319-1163 | pISSN: 2321-7308	

	in High Performance Computing	Research in Engineering and Technology					
Michael Arock, U. Srinivasulu Reddy and A. V. Reddy	A Parallel Combinatorial Algorithm for subtle Motifs	International Journal of Bioinformatics Research and Applications (IJBRA)	6	260-269	2010	DOI: 10.1504/IJBRA.2010.034074	-
Srinivasulu Reddy, Michael Arock, and A. V. Reddy	Planted (l, d)-Motif Finding using Particle Swarm Optimization	International Journal of Computer Applications	Special Issues on Evolutionary Computation for Optimization Techniques	51-56	2010	DOI:10.5120/1541-144	-

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year	doi
M. Muthureka, Srinivasulu Reddy. U, and B. Janet	Implementation of Multivariate Logistic Regression Model for Cerebral Palsy Identification using Prenatal, Perinatal Risk	IOP Conference Series: Materials Science and Engineering	1085	Machine learning in healthcare	Amal Jyothi College of Engineering, Kanjirapally	2020	10.1088/1757-899X/1085/1/012015

	Factors						
Yazhmozhi, Srinivasulu Reddy. U, and B. Janet	Anti-phishing system using LSTM and CNN	IEEE International Conference for Innovation in Technology (INOCON)	1-5	Application of Machine learning in cyber security	Nagarjuna College of Engineering & Technology	2020	10.1109/INOCON50539.2020.9298298
Abdul Jamsheed V, Srinivasulu Reddy. U, and B. Janet	Real time detection of driver distraction using CNN	3 rd International Conference on smart systems and Inventive Technology (ICSSIT 2020)	185-191	Machine learning in real-time application	Francis Xavier Engineering College, Tirunelveli	2020	10.1109/ICSSIT48917.2020.9214233
Vandana Singh, Srinivasulu Reddy. U, G. Manju Bhargavi	A Generic and Robust System for Automated Detection of Different Classes of Arrhythmia	Procedia Computer Science	1801-1810	Deep learning in healthcare	The North Cap University, Gurugram	2020	10.1016/j.procs.2020.03.199.
K. Thenmozhi, Srinivasulu Reddy. U	Machine Learning Based Approaches for Agricultural Pest Management	International Conference on Applications of Basic Sciences (ICABS 2019)	In press	Machine learning in agriculture	GDC Memorial College	2019	https://heber-icabs.com/abstracts.html)
Abhishek Gupta, Srinivasulu Reddy. U	Sentiment Analysis of Hinglish Text and Sarcasm Detection	International Conference on Deep Learning, Artificial Intelligence and Robotics, (ICDLAIR) 2019	11-20	Machine learning in text analytics	Malaviya National Institute of Technology (MNIT), Jaipur & National Institute of Technology, Uttarakhand	2019	10.1007/978-3-030-67187-7_2
N. Kumaran, Srinivasulu	Automatic Image captioning in	IEEE, International Conference	In press	Computer vision	Sri Chandrasekharendra	2019	https://www.aconf.or

Reddy U	Video Sequences using Convolution Neural Network and Recurrent Neural Network	on Electrical Communication, Electronics, Instrumentation and Computing (ICECEIC)			Saraswathi Viswa Mahavidyalaya		g/conf_168477
Ankit Shah, Abinash Mishra, U. Srinivasulu Reddy	Machine Learning Approach for Feature Interpretation and Classification of Genetic Mutations Leading to Tumor and Cancer	First International Conference on Advances in Electrical and Computer Technologies	387-395	Machine learning in healthcare	Coimbatore, Tamil Nadu, India	2019	http://icact.co.in/wpcontent/uploads/2019/04/ICAECT-2019_Souvenir.pdf
Abinash Mishra, U. Srinivasulu Reddy	Class-Weighted Boosting Ensembled Model for Credit Card Fraud Detection: Prominence On Performance Measure	7 th International Conference on Business Analytics and Intelligence	In press	Machine learning in Banking	IIM, Bangalore	2019	http://dcal.iimb.ernet.in/baiconf2019/Presentation%20Schedule_Multiple%20Tracks.pdf
Krishnamoorthy Meena and U, Srinivasulu Reddy	High-Dimensional Multivariate Time Series Data Visualization Using an Open Source Framework	Proceedings of International Conference on Recent Trends in Computing, Communication & Networking Technologies (ICRTCCNT)	1-5	Data Visualization	Kings Engineering College Irungattukottai, Sreiperumbudur	2019	10.2139/ssrn.3431675.

G. Raja, U. Srinivasulu Reddy	Nature inspired algorithms for Genome Subsequence Assembly in Hadoop	2017 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC)	1-4	Bioinformatics	Tamilnadu College of Engineering, Coimbatore	2017	10.1109/ICCIC.2017.8523835
Abinash Mishra, U. Srinivasulu Reddy	A Novel Approach for Churn Prediction Using Deep Learning	2017 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC)	1-4	Machine learning in telecom industry	Tamilnadu College of Engineering, Coimbatore	2017	10.1109/ICCIC.2017.8524551
S. Akila, U. Srinivasulu Reddy	Credit Card Fraud Detection using Non-Overlapped Risk based Bagging Ensemble (NRBE)	2017 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC)	1-4	Machine learning in banking	Tamilnadu College of Engineering, Coimbatore	2017	10.1109/ICCIC.2017.8524418
N. Kumaran, U. Srinivasulu Reddy	Object Detection and Tracking in Crowd Environment - A Review	In Proceedings of the International Conference on Inventive Computing and Informatics (ICICI)	777-782	Object detection	Hotel Arcadia,Coimbatore	2017	10.1109/ICICI.2017.8365242
S. Akila, U. Srinivasulu Reddy	Risk based Bagged Ensemble (RBE) for	In Proceedings of the International	670-674	Credit Fraud Detection	Hotel Arcadia,Coimbatore	2017	10.1109/ICICI.2017.8365220

	Credit Fraud Detection	Conference on Inventive Computing and Informatics (ICICI),						
K.Thenmozhi, U. Srinivasulu Reddy	Image Processing Techniques for Inset Shape Detection in Field Crops	In Proceedings of the International Conference on Inventive Computing and Informatics (ICICI)	699-704	Shape Detection in Field Crops	Hotel Arcadia,Coimbatore	2017	10.1109/ICICI.2017.8365226
Abinash Mishra, U. Srinivasulu Reddy	A Comparative Study of Ensemble Based Classifiers for Customer Churn Prediction in Telecom Industry	In Proceedings of the International Conference on Inventive Computing and Informatics (ICICI)	721-725	Machine learning in Telecom Industry	Hotel Arcadia,Coimbatore	2017	10.1109/ICICI.2017.8365230
M. Sivakumar and U. Srinivasulu Reddy	Aspect Based Sentiment Analysis of Students Opinion using Machine Learning Techniques	In Proceedings of the International Conference on Inventive Computing and Informatics(ICICI)	726-731	Sentiment Analysis	Hotel Arcadia,Coimbatore	2017	10.1109/ICICI.2017.8365231
S. Akila, U. Srinivasulu Reddy	Modelling a Stable Classifier for Handling Large Scale Data with Noise and Imbalance	IEEE International Conference on Computational Intelligence in Data Science (ICCIDS 17)	1-6	Imbalance Data classification	SSN College of Engineering, Chennai	2017	10.1109/ICCIDS.2017.8272643

U. Srinivasulu Reddy, P. Theepalakshmi	A Firefly Algorithm with Levy Flights for Challenging Planted (l, d) - Motif Finding Problem	Proceedings of International Conference on Research in Engineering, Computers and Technology (ICRECT 16)	In press	Motif Finding	National Institute of Technology, Tiruchirappalli	2016	-
Ch. VenkataRamiReddy, K. V. Krishna Kishore, U. Srinivasulu Reddy	Person Identification System using Feature Level Fusion of Multi-Biometrics	7 th IEEE International Conference on Computational Intelligence and Computing Research (ICCIC)	1-6	Person Identification	Agni College of Technology	2016	10.1109/ICCIC.2016.7919672
G. Raja and U. Srinivasulu Reddy	Subsequence based Fragment Assembly in Genomes using Greedy Approximation Matching Techniques in Hadoop	Proceedings of International Conference on Research in Engineering, Computers and Technology (ICRECT 16)	In press	Bioinformatics	National Institute of Technology, Tiruchirappalli	2016	-
S. Akila, U. Srinivasulu Reddy	Data Imbalance: Effects and Solutions for Classification of Large and Highly Imbalanced Data	Proceedings of International Conference on Research in Engineering, Computers and Technology (ICRECT 16)	28-34	Imbalanced Data Classification	National Institute of Technology, Tiruchirappalli	2016	978-81-908388-7-0

S. Akila, U. Srinivasulu Reddy	Big Data Analytics in Bioinformatics: A Technology Prospective	Proceedings of National Conference on Big Data and Cloud Computing (NCBDC'15)	120-124	Big Data Analytics in Bioinformatics	National Institute of Technology, Tiruchirappalli	2015	-
G. Raja and U. Srinivasulu Reddy	A survey on NGS - Short Read Alignment in High Performance	International Conference on Information and Communication Technologies, ICICT2014, Kochi	In press	Bioinformatics	Kochi, India	2014	http://ic ict.cusa t.ac.in/
U. Srinivasulu Reddy, Michael Arock, A.V. Reddy	Finding Gapped Motifs with variable length gaps in unaligned DNA sequences using Particle Swarm Optimization Technique	5th International Conference on Bioinformatics and Computational Biology (BICoB)	19-24	Computational biology	Honolul, Hawaii, USA	2013	http://bi cob.ece .iastate. edu/
U. Srinivasulu Reddy, Michael Arock, A.V. Reddy	A Particle Swarm Optimization Solution for Challenging Planted (l, d)-Motif Problem	2013 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)	222-229	Bioinformatics	Singapore	2013	10.110 9/CIBC B.2013. 659541 3
U. Srinivasul	Particle Swarm	Asia Pacific Bioinformati	Poster No. 168	Motif Finding	IISc., Bangalore	2010	https://c s.nyu.e

u Reddy, Michael Arock, A.V. Reddy	Optimization Based Motif Finding	cs Conference (APBC2010)					du/~parida/APBC2010/
U. Srinivasulu Reddy, Michael Arock and A.V. Reddy	Particle Swarm Optimization based Motif Finding	Proceedings of International Conference on Mathematics and Computer Science	6-13	Computational biology	Loyola College, Chennai	2008	-
Dr. U. Srinivasulu Reddy, Michael Arock, A.V. Reddy	A Parallel Combinatorial Algorithm for Subtle Motifs	Third Indo-US Lecture Series on Discrete Mathematical Chemistry: Special Lectures on Chemoinformatics & Bioinformatics	-	Chemoinformatics & Bioinformatics	Bharathidasan University, Tiruchirappalli,	2008	-
Michael Arock, U. Srinivasulu Reddy and A.V. Reddy	A Parallel Combinatorial Algorithm for Motif Finding	Proceedings of International Conference on Recent Developments in Combinatorics and Graph Theory, held at Kalasalingam University	-	Bioinformatics	Kalasalingam University, Krishnankoil	2007	-
J. Franckline and U. Srinivasulu Reddy	The role of Librarian in Electronic publications environment	National Conf. on Library Resource Management in Digital Era	-	Electronic publications	Bishop Heber College, Tiruchirappalli	2004	-
U.	A Parallel	Proceedings	-	Motif	Bishop	2004	-

Srinivasulu Reddy and J. Franckline	Combinatorial Algorithm for Motif Finding	of International Conference on Recent Developments in Combinatorics and Graph Theory		Finding	Heber College, Tiruchirappalli, TN, INDIAssss		