



Dr. S. Viswanadha Raju

PhD (CSE)

Senior Professor

LMISTE, LMIETE, IEEE, LMCSI

Computer Science & Engineering

Areas of Interest:
 Information Retrieval
 Biometrics
 Outcome Based Education
 Image Processing
 Data Mining
 Machine Learning
 C programming
 Python Programming

Dr. S. Viswanadha Raju is a Senior Professor in the Computer Science and Engineering Department at JNTUH UCEJ, Jagtial, since July 7, 2020. Prior to this, he served as a Professor in the same department from July 7, 2010 to July 7, 2020. He also held a position as a Professor in CSE at GRIET, Hyderabad from February 11, 2009 to July 6, 2010. With over 28 years of academic experience, Dr. Raju has held several key leadership positions, including Vice Principal and IQAC Coordinator at JNTUH UCEJ Jagtial (2016 to 2021), Director of MCA at GRIET (2008 to 2010), and Head of the CSE Department at JNTUH UCEJ (2011 to 2015).

Dr. Raju Completed his Ph.D. in Computer Science and Engineering from Acharya Nagarjuna University, Guntur (2008), an MTech in Computer Science from JNTU Hyderabad (2003), an MCA from Osmania University, Hyderabad (1996). Additionally, he holds a CMI Level 5 professional certification in Education Leadership and Management from MHRD-AICTE and UKIERI/Dudley College, London.

Dr. Raju has been honoured with several prestigious awards, including the State Best Teacher Award (2020) from the Government of Telangana, the ISTE Best Computer Science Engineering Award (2014), an Appreciation certificate from the District Collector of Jagtial (2019), and a few more. His research spans areas such as AI/ML, IoT, biometrics, and Quality in Higher Education, leading to 9 Indian patents published and 2 international patents granted. His work has contributed significantly to educational system reforms and accreditation processes. Dr. Raju Guided 174 Ph.D. scholars and currently supervising 5 more. He has published over 120 research articles in renowned journals and conferences. His academic contributions also include 5 books, such as OBE Implementation in Engineering and Programming for Problem-Solving, etc., and 11 book chapters, 2 AICTE Research projects, and a TEQIP project.

Dr. Raju is a Fellow of the Institution of Engineers (India) and a life member of ISTE, IETE, CSI, and IACSIT. He has delivered over 220 invited talks on technical and accreditation topics. In terms of academic governance, Dr. Raju has served as a Member of the Governing Body for 9 colleges, an Academic Council for 8 colleges, and a Board of Studies for CSE and allied branches at approximately 25 colleges in the last 14 years. He has also been nominated by AICTE as an expert for assessments with UGC, NBA, NAAC, enhancing the effectiveness of IT Consultants across the AICTE Bureau and e-Governance cells, and JNTUH. Dr. Raju has organized numerous academic events and participated in global academic exchanges in Singapore and Taiwan.

Dr. Raju has contributed to global academic reforms through visits to Singapore and Taiwan.

• OBE/ Technical Activities: <https://www.linkedin.com/in/dr-s-viswanadha-rajus8993869/originalSubdomain-in>

• Publications on Google Scholar: <https://scholar.google.com/citations?user=nCpsMAAAAJ8H&seq>

• NPTEL SPOC Coordinator Link: <https://nptel.ac.in/localchapter/statistics/1363>

• Published Book: "Outcome Based Education- Implementation in Engineering Institutions" <https://notionpress.com/read/outcome-based-education>

• Video Lecture on Outcome-based Education in year 2011: https://www.youtube.com/watch?v=0cB4H_0Uldg

• Published OBE articles by National Law University and Judicial Academy, Assam in 2023: <https://nluassam.ac.in/docs/pub/Outcome-based-Education-and-Research.pdf>

→ Educational & Professional

→ Academic Qualifications

→ CMI Certification (international) in Leadership and Program Management , AICTE-UKIERI collaboration with MHRD and Dudley College London(2015) (2014-2015)

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PhD(Computer Science & Engineering) in Information Retrieval, ACHARYA NAGARJUNA UNIVERSITY with AWARDED (2005-2008)

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M.Tech(Computer Science & Engineering) in Computer Science & Engineering , JNTU ,HYDERABAD with FIRST CLASS with Distinction (2000-2002)

→ Professional Experience

→ At JNTUH

→ Professor, JNTUHCEJ /JNTU ,HYDERABAD (2010 - Till Date)

→ Patents

- Dr.S Viswanadha Raju, *System and method of providing assistance for monitoring land encroachment* .Indian patent, 2019
- Dr.S Viswanadha Raju, *System and Method for Online audit and inspection of educational institutions* .Indian patent, 2019
- Dr.S Viswanadha Raju, *A Hybrid method to identify optimal initial cluster centre for clustering* .Indian patent, 2018
- Dr.S Viswanadha Raju, *Authentication model for Wireless Communication* .Indian patent, 2018
- Dr.S Viswanadha Raju, *Video Input based System for Warning Anomalies and Automating Attendance of Students*(VISWAAAS) -5747/CHE/2015 .Indian patent, 2015
- Dr.S Viswanadha Raju, *A Frame Work for STEP Data Transformation*.(filed --814/CHE/2014) .Indian patent, 2014
- Dr.S Viswanadha Raju, *An Expert System for Residential Medical Diagnosis*(filed -- 704/CHE/2014) .Indian patent, 2014
- Dr.S Viswanadha Raju, *A Secured Optimized Multimodal Biometric Identification System (OMBIS) for Remote Infrastructure Management*, (filed - 584/CHE/2014) .Indian patent, 2014
- Dr.S Viswanadha Raju, *Enhancing the Security Strength of Cloud Computing through Biometric Template Protection Scheme*(filed - TEMPE-1/7859/2013-CHE) .Indian patent, 2013
- Dr.S Viswanadha Raju, *Automotive Security System Using Embedded Biometrics* (filed 1995/CHE/2013) - Indian patent, 2013
- Dr.S Viswanadha Raju, *Hybrid Approach for Multimodal Biometric Template Security* (filed- 1550/CHE/2013) .Indian patent, 2013

→ Books

- Dr.S Viswanadha Raju, *International Conference on Advanced Computing Technologies*, BS Publications, 9788178001883, 2009
- Dr.S Viswanadha Raju, *Feature Detectors and Motion Detection in Video Processing* (pp: 256-266), IGI Global, <https://www.igi-global.com/chapter/insilico-approach-for-epitope-prediction-toward-novel-vaccine-delivery-system-design/170222>, 2016
- Dr.S Viswanadha Raju, *Intelligent Techniques in Signal Processing for Multimedia Security*, (pp 113d-132), Springer, https://link.springer.com/chapter/10.1007/978-3-319-44790-2_6, 2017
- Dr.S Viswanadha Raju, *Intelligent Techniques in Signal Processing for Multimedia Security*, (pp 49d-485), Springer, https://link.springer.com/chapter/10.1007/978-3-319-44790-2_21, 2017
- Dr.S Viswanadha Raju, *Intelligent Techniques in Signal Processing for Multimedia Security*, (PP: 293-319), Springer , https://link.springer.com/chapter/10.1007/978-3-319-44790-2_14, 2017
- Dr.S Viswanadha Raju, *Big Data Management and the Internet of Things for Improved Health Systems*, (PP.163-175), IGI Global, <https://www.igi-global.com/chapter/secured-optimal-cost-approach-for-bimodal-deep-face-recognition-in-iiot-and-its-applications/196045>, 2018
- Dr.S Viswanadha Raju, *Parallel String Matching with Linear Array, Butterfly and Divide and Conquer Models*, Springer, 1386-7857, 2018
- Dr.S Viswanadha Raju, *Information and Communication Technology for Competitive Strategies* (pp.359-375), Springer, 978-981-13d-0513-9, 2019
- Dr.S Viswanadha Raju, *Performance Optimization of Hypervisor% Network Bridge by Reducing Advances in Big Data and Cloud Computing Latency in Virtual Layers*, Springer, 978-981-13-1881-1, 2019
- Dr.S Viswanadha Raju, *PROCEEDINGS 6th International Advanced Computing Conference*, IEEE Computer Society-CPS Conference publishing, 9781467382861, 2016
- Dr.S Viswanadha Raju, *Programming in C*, Spectrum Education Publications, 978-93-83540-66-9, 2018
- Dr.S Viswanadha Raju, *Programming for Problem Solving*, Spectrum Publications, 978-93-88096-20-1, 2019
- Dr.S Viswanadha Raju, *Outcome Based Education Implementation in Engineering Institutions*, <https://notionpress.com/read/outcome-based-education#prediction>, 9798886841732, 2021
- S.Viswanadha Raju, MSVS RAJU, DEEPAK GARG, K.R.RAJU, *PROCEEDINGS 6th International Advanced Computing Conference*, IEEE Computer Society-CPS Conference publishing, 9781467382861, 2016
- S.Viswanadha Raju, *International Conference on Advanced Computing*, BS Publications Hyderabad, 7695-2938, 2008

→ Publications

International Conference

- GN Beena Bethel, TV Rajnikanth, S Viswanadha Raju, *Enhancement of Anisotropic Diffusion Filtered Cardiac MR Images Using Contrast-Based Fuzzy Approach*, International Conference on Advances in Computational Intelligence and Informatics, pp.219-227, Springer, Singapore, 12, 2019
- KS Reddy VU Maheswari, S Viswanadha Raju, *Local Directional Weighted Threshold Patterns (LDWTP) for Facial Expression Recognition*, Fifth International Conference on Image Information Processing (ICIIP), 2019
- Gudavalli, Madhavi; Kumar, D Srinivasa; Raju, S Viswanadha., *A Multibiometric Fingerprint Recognition System Based on the Fusion of Minutiae and Ridges*, Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) , ISBN No.978-3-319-13728-5, Vol No.1, pp.231-237, AISC Springer, 2015
- Korra, Sampath; Babu, A Vinaya; Raju, S Viswanadha., *The adaptive approach to software reuse*, International Conference on Contemporary Computing and Informatics (IC3I), ISBN No.INSPEC Accession Number:14871880, pp.67-70, IEEE, November, 2014
- Sreenivasulu, G; Raju, S Viswanadha; Rao, N Sambasiva., *Data Labeling method based on Rough Entropy for categorical data clustering*, International Conference on Electronics, Communication and Computational Engineering (ICECCE), ISBN No.INSPEC Accession Number:15059028 , pp.173-178, IEEE, November, 2014
- Reddy, H Venkateswara; Raju, S Viswanadha., *A Roughset Based Data Labeling Method for Clustering Categorical Data*, 3rd International Conference on Eco-friendly Computing and Communication Systems (ICECCS) , ISBN No.978-1-4799-7003-2 , pp.51-55, December, 2014
- Reddy, H Venkateswara; Kumar, B Suresh; Raju, S Viswanadha., *A Data Labeling Method for Categorical Data Clustering Using Cluster Entropies in Rough Sets*, International Conference on Advances in Computing, Communications and Informatics (CACCI), ISBN No.978-1-4799-3069-2, pp.444-449, IEEE, August, 2014
- Reddy, H Venkateswara; Viswanadha Raju, S; Agrawal, Pulin; *Data labeling method based on cluster purity using relative rough entropy for categorical data clustering*, International Conference on Advances in Computing, Communications and Informatics (ICACCI) , ISBN No.978-1-4799-2432-5, pp.500-506, IEEE, August, 2013
- Someswarao, Chinta; Raju, K Butchi; Appaji, SV; Raju, S Viswanadha; Reddy, KVVVS., *Recent Advancements in Parallel Algorithms for String Matching on Computing Models-A Survey and Experimental Results*, Advanced Computing, Networking and Security, ISBN No.ISBN:978-3-642-29280-4, Vol No.7135, pp.270-278, LNCS Springer, 2012
- Gudavalli, Madhavi; Babu, A Vinaya; Raju, S Viswanadha; Kumar, D Srinivasa., *Multimodal Biometrics-Sources, Architecture and Fusion Techniques: An Overview*, International Symposium on Biometrics and Security Technologies, ISBN No.978-1-4673-0917-2 , pp.27-34, IEEE, 2012
- Madhavi, K Reddy; Babu, A Vinaya; Rao, A Anand; Raju, SVN., *Identification of optimal cluster centroid of multi-variable functions for clustering concept-drift categorical data*, International Conference on Advances in Computing, Communications and Informatics , ISBN No.978-1-4503-1196-0, pp.124-128, ACM, 2012
- Reddy Madhavi, K; Vinaya Babu, A; Anand Rao, A; Viswanadha Raju, S., *Identification of optimal cluster centroid for unconstrained nonlinear multivariable functions*, Fourth International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom2012), pp.210-213, IEEE, 2012
- Madhavi, K Reddy; Babu, A Vinaya; Rao, A Anand; Raju, S Viswanadha; Rau, CN., *Graphical method to find optimal cluster centroid for two-variable linear functions of concept-drift categorical data*, Second International Conference on Computational Science, Engineering and Information Technology - ISBN No.978-1-4503-1310-0, pp.269-274, ACM, 2012
- Gudavalli, Madhavi; Raju, S Viswanadha; Kumar, KSMV., *A template protection scheme for multimodal biometric system with fingerprint, palmprint, iris and retinal traits*, CUBE International Information Technology Conference, ISBN No.978-1-4503-1185-4, pp.102-107, ACM, 2012
- Raju, K Butchi; Kumar, LP; Rao, Chinta Someswara; Raju, S Viswanadha., *PDM data classification from STEP-an object oriented String matching approach*, 5th International Conference on Application of Information and Communication Technologies (AICT), ISBN No.978-1-61284-831-0, pp.1-9, IEEE, October, 2011
- Rao, Chinta Someswara; Murthy, KVS; Gupta, V MNSSVKK; Raju, GV Padma; Raju, S Viswanadha; Balakrishna, Adavi., *Implementation of object oriented approach for copyright protection using Hadamard transforms*, International Conference on Computer and Communication Technology (ICCCCT), ISBN No.978-1-4244-9033-2, pp.473-480, IEEE, September, 2010
- Rao, Chinta Someswara; Balakrishna, Adavi; Raju, K Butchi; Kumar, I; Prasanna; Raju, S Viswanadha; Raju, GV Padma., *Implementation Of Interactive Data Knowledge Management And Semantic Web For Step-Data From Express Entities*, 3rd International Conference on Emerging Trends in Engineering and Technology (ICETET), ISBN No.978-1-4244-8481-2, pp.537-542, IEEE, 2010
- Raju, S Viswanadha; Mantena, SR; Babu, A Vinaya; Raju, GVS., *Efficient Parallel Pattern Matching Using Partition Method*, Seventh International Conference on Parallel and Distributed Computing, Applications and Technologies, ISBN No.0-7695-2736-1 , pp.427-430, IEEE, 2006
- Raju, S Viswanadha; Babu, A Vinaya; Mrudula, M., *Backend engine for parallel string matching using boolean matrix*, International Symposium on Parallel Computing in Electrical Engineering, ISBN No.0-7695-2554-7 , pp.281-283, 2006

- > **Administrative Positions Held**
- > Vice-Principal, JNTUH College of Engineering Jagtial, 27 Dec 2016 - Present
- > Director - PG(MCA), GRIET, 01 May 2009 - 06 Jul 2010
- > Head of Department, JNTU(HCEJ), 04 Oct 2010 - 03 Nov 2014
- > Head of Department (CSE/MCA), GRIET, 01 May 2002 - 01 May 2009

-> **Project/Research Guidance**

- **Students**

Student Name	Title	Year	Download
G. Srinivasulu	An efficient time_variant categorical data clustering with concept drift detection	2019	
G.M.Beenabethal	Effective analysis of cardiac data using various data mining approaches	2019	
S.B.Ullagaddi	Image Processing in Agriculture for Pathogen Detection and Diagnose of Mango Crop	2018	
KVVVS Reddy	Parallel String Matching Algorithms for Genomics Data	2017	
Sujatha Banothu	Eflex System -A Flexible and Efficient Natural Language Query interface to Database	2017	
Chinta Someswara Rao	Multiple pattern multiple (2N) shaft parallel string matching for genomics data	2017	
J. Sreedhar	Critical Approaches to Identification of Ambiguous Words in Natural Language Processing	2016	
K Butchi Raju	Parallel approach to string matching - a computational approach with N-folded mechanisms	2016	
H. Venkateswara Reddy	Clustering Of Concept-Drift Categorical Data Based On Node Importance Representatives	2015	
KSMV KUMAR	Parallel algorithms for string matching	2015	
D. Seetha Mahalaxmi	Version Based Software Watermarking	2014	
Mortha Manasa Devi	Detection and Conversion of Text In Video using Multi Layer Perceptron	0	
V. Uma Maheshwari	Design of Directional Local Patterns in CBIR for Facial Expression Analysis using Machine Learning Algorithms	0	
Suresh Kumar B	Multilevel automated Video Surveillance alert System Based on Background Substraction Method	0	
P Chinnna Venkanna Varma	Performance optimization of hypervisors@™s network bridge by reducing latency in virtual layers	0	

-> **Countries/Foreign Universities**

- > International conference (ICMLC2011), SINGAPORE RESEARCH PAPER PRESENTATION
- > National Taiwan University of Science and Technology, Taipei, Taiwan , 26-03-2012 to 29-03-2012 RESEARCH PAPER PRESENTATION

-> **Others**

<https://www.youtube.com/@RAJUVISWANADHAJNTUH>

-> **Downloads**

- > OBE - Student learning Outcomes
- > OBE - Attainment of Course Outcomes and Program Outcomes
- > Outcome Based Education(OBE)

Contact :

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