



Name : Dr.G.MADHU,
M.Tech., Ph.D., MIEEE, MCSI, MISTE, MISRS, MIRSS, MIAENG
Designation : Associate Professor
Department : Information Technology
Mail.ID : madhu_g@vnrvijet.in
Experience (in years): Teaching: 14 Research: 09others (If any, Specify):

2 Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization |
|------|---------------------------------------|-----------------|---------------------------|
| 1 | Ph.D – J.N.T.University, Hyderabad | 2015 | Computer Science &Engg |
| 2 | M.Tech- J.N.T.University, Hyderabad | 2008 | Computer Science &Engg |
| 3 | M.Sc.,- J.N.T.University, Hyderabad | 2000 | Mathematics |
| 4 | B.Sc.,-Kakatitya University, Warangal | 1997 | Maths, Physics, Chemistry |

3 Teaching and Learning:

3.2 Teaching Interests: Artificial Neural Networks, Data Warehousing, Data Mining and Machine Learning, Design and Analysis of Algorithms, Mathematical Foundation of Computer Science, Semantic Web, Soft Computing.

3.3 Novel Teaching & Learning Techniques adopted: LBD, WIT & WIL, POGIL

3.4 Involvement in curriculum updating / Design: IT Dept. Autonomous Academic BoSMember.

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies: Playing Chess, Listening to music and Traveling

3.2. CCA/ECA Organized:

- Participated in Technical-Fest, Convergence- 2017
- Participated in Technical-Fest, Convergence- 2016
- Participated in Technical-Fest, Convergence- 2015
- Participated in Technical-Fest, Convergence- 2014
- Participated in Technical-Fest, Convergence- 2013
- Participated in Technical-Fest, Convergence- 2012
- Participated in Technical-Fest, Convergence- 2011

3.3. CCA/ECA participated:

- Dept. Coordinator for Show & Tell Program.
- Dept. Coordinator for Open House 2017.
- DRDO-DRL Project poster presentation at Open House 2015, 2016 and 2017
- B.Tech Project Expo as part of Show & Tell.
- Participated in Art of Teaching & POGIL, May -2013.
- Coordinated for Industrial visit TCS Campus, Madhapur, Hyderabad-2012.

3.4. Counseling and Mentoring Activity:

- Involved in Dept. committee for students counseling and mentoring activity personally with the UG & PG.

3.5. Committees involved in:

- Department level:
 - a) Dept. R & D Activities
 - b) Projects Proposals & Funding a Agencies
 - c) BoS Member
 - d) NBA Coordinator
- Institute Level:
 - a) U G Main Projects In-Charge
 - b) Project Arcade Coordinator
 - c) Project Compendium Coordinator
 - d) Show & Tell Coordinator
 - e) NAAC Coordinator

4. Conference / Workshop / Seminar / Guest Lectures:

i. Conducted: Session's organizer

- A three days 7th International Advance Computing Conference at VNRVJIET, during the period Jan, 5th -7th, 2017.
- A three days International Conference on Data Sciences at VNRVJIET, during the period 26th – 28th Feb 2014.
- A Two Weeks AICTE Sponsored Staff Development Program on “RECENT TRENDS IN CLOUD COMPUTING & SECURITY” at VNRVJIET, Hyderabad. During the period 3rd – 15th June 2013.
- A three days' workshop on “NETWORK MANAGEMENT SYSTEM” with industrial case studies in collaboration with SIEMENS, during the period 27th – 29th Jan 2011.
- A Two Weeks AICTE Sponsored Staff Development Program on “RECENT TRENDS IN NETWORKING & SECURITY” at VNRVJIET, Hyderabad. During the period 13th – 26th June 2011.

ii. Attended:

- Attended Four Week AICTE approved FDP by IIT Bombay Use of ICT in Education for Online and Blended Learning, held at VNRVJIET, Hyderabad during 2nd May – 10th July 2016.
- Attended 6-Day TEQIP Workshop on Deep Learning for Visual Computing (WDLVC-2016) held at IIT Hyderabad during June 20th -25th 2016.
- Attended Three Day Workshop on Research Issues and Application of Soft Computing, organized by VNRVJIET, IT Dept. Hyderabad, March 28th -30th 2016.

- Attended One Day Workshop on Predictive Analysis with Rapid Miner, jointly organized by IEEE Hyderabad Section and IEEE Computational Intelligence Society, 22nd Aug, 2015.
- Attended One Day Workshop on High Performance Computing Code Modernization (Parallelization), organized by VNRVJIET, IT Dept. Hyderabad, 10th July 2015.
- Attended Three Day Workshop on Big Data Analysis & Cloud Computing organized by VNRVJIET CSE Dept., Hyderabad, Sept 4th-6th 2014.
- Attended One Day Seminar on Introduction to Cloud context & Cloud models and capabilities organized by VNRVJIET CSE Dept., Hyderabad, Sept 5th 2014.
- Attended Three Day Workshop on Data Sciences organized by VNRVJIET CSE & IT Dept. Hyderabad, Feb 26th 2014.
- Attended Two Day Workshop on Rough Sets and Knowledge Technologies (RSKT), jointly organized by JNTU Hyderabad and ISRS chapter Hyderabad, Nov 10th -11th 2013.
- Attended Five Day Workshop for Computer Science Teachers”, jointly organized by ACM Hyderabad Chapter, and IIIT Hyderabad, May 16th to 20th 2013.
- Attended Three Day International Workshop on Rough Sets and Knowledge Engineering, organized by GVP College of Engineering, Visakhapatnam, NOV 9th to 11th 2012.
- Attended Three Day Workshop on the 5th Multidisciplinary International Workshop on Artificial Intelligence (MIWAI 2011), jointly organized by Mahasarakham University, Thailand, and University of Hyderabad, Dec 7th to 9th 2011.
- Attended One Day Workshop on Web-Mining, Jointly organized by UGC-Academic Staff College, JNTUH and GRIET, Feb-12th, 2011.
- Attended International Workshop on Fuzzy Logic, Computer Arithmetic and Symbolic Computing, SIT building, JNTUH, Oct-9-10th, 2010.
- Attended Colloquium on Computational Intelligence, organized by Dept. of Computer and Information Science, University of Hyderabad. March 23rd-24th, 2010.
- Attended workshop on Data warehousing & Data mining at JNTUH conducted by IIIT Hyderabad, in March 2009.
- Attended workshop on Web Technologies at JNTUH conducted by JNTUH, in March 2009.

4. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 09

5.2. Articles/Chapters published in Books: Nil

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG:

| S.No | Name of the Project | Status | Year |
|------|--|-----------|-----------|
| 1 | Mining closed Sequential Patterns | Ongoing | 2016-2017 |
| 2 | Computer vision for Detection Malarial Parasite based on Machine Learning Algorithm | Completed | 2015-2016 |
| 3 | Automated screening of Malaria Parasite Detection Using Machine Learning Methods | Completed | 2014-2015 |
| 4 | Employee Tracking system-E.Gov Project | Completed | 2013-2014 |
| 5 | An Efficient Classification Learning Algorithm in the Diagnosis of Malaria | Completed | 2012-2013 |
| 6 | Knowledge Extraction using Decision Tree Approach for Classification of Remote Sensed Image. | Completed | 2011-2012 |
| 7 | Trace Back of DDOS Attacks using Entropy Variations. | Completed | 2010-2011 |

b) PG:

| S.No | Name of the Project | Status | Year |
|------|--|-----------|------|
| 1 | An Efficient Approach for IDS based on Distributed Computing using Modified Kernel k-Means with C4.5 | Completed | 2016 |
| 2 | Machine Learning based algorithm for Intrusion Detection System in Multi-agent System | Completed | 2015 |
| 3 | Intelligent Based Imputation Methods for Text Mining Applications to Phishing Alerts | Completed | 2014 |

5.5. Research Interests: Data Mining, Machine Learning and Deep Learning Algorithms

5.6. Ph.D students:

- a) Enrolled: Nil
- b) Submitted: Nil
- c) Awarded: Nil

5.7. Papers published in reviewed Journals:

| S.No | Title of the Paper | Journal Name Vol.No. PP | ISBN/ISSN No. | Impact Factor/ Citation Index | National/ International |
|------|--|--|--|--|----------------------------|
| 1 | A New Paradigm for Development of Data Imputation Approach for Missing Value Estimation | International Journal of Electrical and Computer Engineering Vol.6.No.6, Dec 2016 | ISSN: 2088-8708 | Scopus | International |
| 2 | An Algorithm for Clustering and Classification of Medical Datasets using k-Means and Radial Basis Function Neural Networks | International Journal of Data Mining & Emerging Technologies (Vol. 6, No. 1, May 2016) | Print ISSN: 2249-3212 | Google | International |
| 3 | A Novel Discretization Algorithm for Continuous Attributes: A Machine Learning Approach | International Journal of Data Mining and Emerging Technologies, Vol.4. Issue.1, PP. 33-43,2014 | Print ISSN: 2249-3212. Online ISSN : 2249-3220 | Google | International |
| 4 | Features Selection Algorithm with Discretization and PSO Search methods for Continuous Attributes | International Journal of Computer Science and Information Technologies (IJCSIT), Vol.5(2), PP. 1398-1402, 2014 | ISSN: 0975-9646 | 2.93 | International |
| 5 | A Non-Parametric Discretization Based Imputation Algorithm for Continuous Attributes with Missing Data Values | International Journal of Information Processing, Vol.8, Issue.1,PP.64-72, 2014 | ISSN: 0973-8215 | Google | International |
| 6 | A New Discretization | Indian Journal of | ISSN 0973- | Google | International |

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|----|---|---|-----------------|-----------------------------|---------------|
| | Method for Continuous Laboratory Features in the Diagnosis of Dengue Fever | Medical Informatics, [S.l.], vol. 8, no. 1, may. 2014. | 0397 | | |
| 7 | A New Imputation Algorithm Based Approach for Missing Attribute Values in Databases: An Experimental Approach | International Journal of Artificial Intelligence and Knowledge Discovery, vol.2. no.2, 2012. | ISSN: 2231-2021 | 0.50 | International |
| 8 | A Novel approach to attribute reduction under data mining process is using rough set theory | International Journal of Mathematical Archive-2 (9), page. 1545-1549, 2011. | ISSN 2229-5046 | 1.20 | International |
| 9 | An Impudent Approach for Intelligent Data Mining Using Rough Set Theory | International Journal of Computational Intelligence Research. Vol.7, Number 2, pp. 159-168.2011. | ISSN: 0973-1873 | Google | International |
| 10 | Intelligent Semantic Web Search Engines: A Brief Survey | International Journal of Web & Semantic Technology (IJWesT) Vol.2, No.1, page, 34-42, January 2011. | ISSN: 0975-9026 | 47- Citations March 2016 | International |
| 11 | Hypothetical Description for Intelligent Data Mining | International Journal on Computer Science and Engineering. Vol.02, No.07, 2010. | | Google | International |
| 12 | A Scalable Formalism for Handling Uncertainty in Semantic Web | International Journal of Computer Science & Communication Technologies, | ISSN-0974-3375 | 0.620 | International |

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|----|--|---|------------------|--------|---------------|
| | | vol.2, Issue 2, Jan, 2010. | | | |
| 13 | A Quality Assessment and Handling Uncertainty in Health care Data Mining | International Journal of Computing and Mathematical Applications vol. no.1-2, January-December 2008.pp199-213 | ISSN : 0974-4312 | Google | International |
| 14 | Data Mining for Genetics: A Genetic Algorithm Approach | Journal of Convergence Information Technology, Korea. Vol 3 Number 3 September 2008.pp 39-45. | ISSN : 1975-9320 | Google | International |
| 15 | Recent Advances in Uncertainty Theories: A Brief Survey | Research Journal of Engineering and Technology, April-June 2008, Volume: 1 Issue: 1.pp 22- 31, | ISSN 0974-2824 | Google | International |
| 16 | A New framework for Building Decision Trees under Uncertainty | International Journal of Applied Mathematical Analysis and Applications. January-December 2007, Volume 2 No. 1-2, | | Google | International |
| 17 | Application on Fuzzy Theory for Handling Uncertainty to Spatial Data Mining. | International Research Journal ACTA CIENCIA INDICA - Published Dec 2005 | | Google | International |

5.8. Papers presented at National / International Journals:

| S.No | Title of the Paper | Names of the Conference/ Seminars | National/ International | Period |
|------|--------------------|--------------------------------------|----------------------------|--------|
|------|--------------------|--------------------------------------|----------------------------|--------|

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| 1 | Improve the classifier accuracy for continuous attributes in biomedical datasets using new discretization method | Information Technology and Quantitative Management (ITQM 2014),Procedia Computer Science Elsevier ,Moscow, Russia | International Scopus/Web of Science | June 3rd - 5th, 2014 |
| 2 | A Novel discretization method for numerical attributes with missing datasets: A Machine learning approach | 7th International Conference on Data Mining and Warehousing (ICDMW-2013), Elsevier Publications, pp.93-101, | International | 9 th - 11 th Aug 2013 |
| 3 | A New Feature Selection Discretization Algorithm for continuous attributes | 2 nd International Conference on Advanced Computing Methodologies, Elsevier Publications, , | International | 2 nd to 3 rd Aug 2013. |
| 4 | A Novel Index Measure Imputation Algorithm for Missing Data Values: A Machine Learning Approach | 12th IEEE International conference on Computational Intelligence and Computing Research (ICCIC). | International | Dec 18th -20th 2012, pp.1-7. |
| 5 | Expert Rule Miner: A New Framework for Handling uncertainty and Quality Assessment in Data Mining process | International conference, systemic, Cybernetics and Informatics (ICSCI-2006).Organized by pentagram center Pvt. Ltd. | International | January 4th -8th 2006. |
| 6 | Managing uncertainty and quality assessments in Banking Data Mining: A New approach | International Conference on Current Trends in IT, organized by S.R.K.R Engineering college, china Amiram, Bhimavaram- 534204.A.P.INDIA | International | 1 st to 3 rd , Oct 2005 |
| 7 | Handling uncertainty in Spatial Data Mining: With Fuzzy Approach | International Conference on Environmental Management (ICEM-2005) organized by | International | 28th - 30th Oct- 2005. |

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| | | J.N.T.University, Hyd. | | |
| 8 | Handling uncertainty in Integration of Hybrid GIS Environment | 14th congress of ANDHRA PRADESH SOCIETY FOR MATHEMATICAL SCIENCES organized by Dept of Basic Sciences and Humanities, College of Engineering, GITAM. Vizag -530045 | National | 9th -11th Sept-2005 |
| 9 | Data Mining Techniques in Real World | 13th Congress of ANDHRA PRADESH SOCIETY FOR MATHEMATICAL SCIENCES, organized by Dept. of Mathematics and Humanities NIT Warangle-506004 (A.P) | National | 10th - 12th December 2004 |
| 10 | Connectionist Expert Systems for Low Level Image Segmentation | XII Congress of ANDHRA PRADESH SOCIETY FOR MATHEMATICAL SCIENCES organized by Dept. of Mathematics, Osmania University, Hyderabad. | National | 12th - 13th December 2003 |

5.9. Sponsored research Projects:

| S.No | Title | Agency | Period | Grant amount | Ongoing / Completed |
|------|---|------------------------|-------------------|----------------|---------------------|
| 1 | Development of a Machine Learning Based Algorithm for Computer Aided-Diagnosis of Malaria | DRDO,DRL, TEZPUR-ASSAM | 2-Years (2015-17) | Rs. 7,75,080/- | Ongoing |

5.10 Consultancy Projects:

| S.No | Title | Agency | Period | Sanctioned Amount | Ongoing / Completed |
|------|-------|--------|--------|-------------------|---------------------|
|------|-------|--------|--------|-------------------|---------------------|

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6. Awards / Honors received:

| S.No. | Type of Award | Organization |
|--------------|---|--|
| 1 | Award of Excellence in AICTE FDP Programme | IIT, Bombay, 2016 |
| 2 | Cash award (Highly Cited Research Paper) | VNRVJIET, Hyderabad |
| 3 | Reviewer for Journal of Convergence Information Technology | Dongguk University, Korea, 2009 to Till date |
| 4 | Reviewer for Journal of Soft Computing | Springer, Germany, June 2013 to Till date |
| 5 | Reviewer for Journal of Experimental & Theoretical Artificial Intelligence, | Taylor & Francis, Nov 2015 to Till date |

7. Motto: Learning Today..... Leading Tomorrow