

# CURRICULUM VITAE

## **Dr. Mahmood Ali Mirza**

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2019

## **1 DEGREES**

Ph.D. Computer Science and Engineering	Acharya Nagarjuna University
M.Tech Computer Science and Engineering	Jawaharlal Nehru Technological University
M.C.A	Madhurai Kamaraj University

## **2 PROFESSIONAL EXPERIENCE**

(Total Experience: 16 Years)

2018- Till Date	Academic Consultant Krishna University, Machilipatnam
2007- 2018	Associate Professor, University Ratified D.M.S. S.V.H College of Engineering, Machilipatnam.
2006-2007	Assistant Professor K.L. University, Vadeswaram, Vijayawada.
2003-2006	Lecturer Nrupatunga Degree and P.G. College, Kachiguda, Hyderabad.

## **3 AREAS OF EXPERTISE**

Data Mining, Knowledge Discovery and Machine Learning, Class Imbalance Learning, Software defect analysis using machine learning.

## **4 STRENGTH**

- Strong combination of academic and practical experience through my work.
- Formal training and education in both Engineering and Computer Science.
- Excellent administrative capabilities and experience in management, leadership and supervision.
- Experience in establishing and enhancing graduate and undergraduate programs.

- Background and preparation suitable for undertaking multidisciplinary research..
- Ability to teach courses in new areas such as machine intelligence, data mining and machine learning.

## 5 PROFESSIONAL ACTIVITIES

### 5.1 Reviewer and Editorial

- Reviewer and Editorial Advisory Board, EVOLVING SYSTEMS, SPRINGER.
- Reviewer and Editorial Advisory Board, SOCIAL NETWORK ANALYSIS AND MINING, SPRINGER.
- Reviewer and Editorial Advisory Board, NEURAL COMPUTING AND APPLICATIONS, SPRINGER.
- Reviewer and Editorial Advisory Board, WIREs Data Mining and Knowledge Discovery, WILEY PUBLISHERS.
- Editorial Board Member, International Journal of Research and Reviews in Information Science, Science Academy Publishers, United Kingdom.

### 5.2 Supervision for PhD

- K.L. University, Vaddeswaram, Vijayawada.

Research Scholars:

1. Arshad Ahmad Khan Mohammad (PhD Awarded)
2. Ramesh

## 6 PUBLICATIONS

### Summary of Research Contributions

Journal papers	24
Conference papers	14
<b>Total</b>	<b>38</b>

### Google Scholar Citations

	All	Since 2013
<b><u>Citations</u></b>	117	74
<b><u>h-index</u></b>	7	5
<b><u>i10-index</u></b>	6	2

## 6.1 Journal Publications

1. Arshad Ahmad Khan Mohammad, **Ali Mirza Mahmood**, SrikanthVemuru (2019). Energy-Aware Reliable Routing by Considering Current Residual Condition of Nodes in MANETs. *Advances in Intelligent Systems and Computing*. 441-452. 10.1007/978-981-13-0514-6\_44.
2. Arshad Ahmad Khan Mohammad, **Ali Mirza Mahmood**, SrikanthVemuru (2019). Providing Security Towards the MANETs Based on Chaotic Maps and Its Performance: Proceedings of the Fourth ICMEET 2018. 145-152. 10.1007/978-981-13-1906-8\_16.
3. Arshad Ahmad Khan Mohammad, **Ali Mirza Mahmood**, SrikanthVemuru (2016). Analytical Model for Evaluating the Bottleneck Node in MANETs. *Indian Journal of Science and Technology*. 9. 10.17485/ijst/2016/v9i31/95383.
4. Arshad Ahmad Khan Mohammad, **Ali Mirza Mahmood**, SrikanthVemuru (2016). Cluster Based Mutual authenticated key agreement based on Chaotic Maps for Mobile Ad Hoc Networks. *Indian Journal of Science and Technology*. 9. 10.17485/ijst/2016/v9i26/95137.  
**Impact Factor: 1.05.**
5. Arshad Ahmad Khan Mohammad, **Ali Mirza Mahmood**, SrikanthVemuru (2016). Secure energy efficient routing in MANETs by considering packet dropping reasons. *PONTE International Scientific Researchs Journal*. 72. 10.21506/j.ponte.2016.11.7.
6. Mohammad, Arshad Ahmad & **Ali Mirza Mahmood** & Abdul Razzak, Mohammed. (2015). Reactive Energy Aware Routing Selection Based on Knapsack Algorithm (RER-SK). *Advances in Intelligent Systems and Computing*. 338. 289-298. 10.1007/978-3-319-13731-5\_32.
7. Arshad Ahmad Khan Mohammad, **Ali Mirza Mahmood**, SrikanthVemuru (2016). "ENERGY AWARE ROUTING FOR MANETS BASED ON CURRENT PROCESSING STATE OF NODES", *Journal of Theoretical and Applied Information Technology* 30th September 2016. Vol.91. No.2.
8. **Ali Mirza Mahmood** (2015). Class Imbalance Learning in Data Mining – A Survey. *International Journal of Communication Technology for Social Networking Services*. 3. 17-36. 10.21742/ijtsns.2015.3.2.02.
9. Imran, Mohammad & **Ali Mirza Mahmood** & Abdul Moiz Qyser, Ahmed. (2015). An empirical experimental evaluation on imbalanced data sets with varied imbalance ratio. *International Conference on Computing and Communication Technologies, ICCCT 2014*. 10.1109/ICCCT2.2014.7066742.
10. Kumar, Dr & Nageswara Rao, K & Govardhan, Dr & Reddy, K & **Ali Mirza Mahmood**.

- (2014). Undersampled K -means approach for handling imbalanced distributed data. *Progress in Artificial Intelligence*. 3. 29-38. 10.1007/s13748-014-0045-6. **Springer**
11. Imran, Mohammad & Abdul, Ahmed & A Kumar, Vijaya & **Ali Mirza Mahmood** & Qyser, Moiz. (2014). Framework for Inductive Learning from Imbalanced Data Sets using Uniform-Sampling, *IFRSA International Journal of Data Warehousing & Mining* |Vol 4|issue3|August 2014.
  12. Syed ZiaurRahman, Dr. G Samuel Vara Prasad Raju & **Dr. Ali Mirza Mahmood** (2014)." An under-Sampled Approach for Handling Skewed Data Distribution using Cluster Disjuncts", *Global Journal of Computer Science and Technology: C, Software & Data Engineering*, Volume 14 Issue 7 Version 1.0 Year 2014,Type: Double Blind Peer Reviewed International Research Journal, Publisher: Global Journals Inc. (USA).
  13. Ali Hussain, Md & Kameswara Rao, M & **Ali Mirza Mahmood** (2013). An optimized approach to generate simplified decision trees. 2013 IEEE International Conference on Computational Intelligence and Computing Research, *IEEE ICCIC 2013*. 1-5. 10.1109/ICCIC.2013.6724191.
  14. Dr. SatuluriNaganjaneyulu, Dr. Mrithyumjaya Rao Kuppa and **Dr. Ali Mirza Mahmood** (2013)"An Efficient Wrapper approach for Class Imbalance Learning using Intelligent Under-Sampling", *sersc.org*. [http://www.sersc.org/journals/IJAIASD/vol2\\_no1/3.pdf](http://www.sersc.org/journals/IJAIASD/vol2_no1/3.pdf)
  15. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2012). A Novel Approach using Expert Knowledge on Error based Pruning. *Journal of Information & Knowledge Management (JIKM)*. 11. 1250007-1. 10.1142/S0219649212500074.
  16. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2012). A novel pruning approach using expert knowledge for data-specific pruning. *Volume 28, Number 1*, page no: 21-30, *In Engineering With Computers, Springer-Verlag, London Limited 2011*, **Impact Factor = 0.704**. 10.1007/s00366-011-0214-1.
  17. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2011). Increasing generalization accuracy by using multivariate statistical method. *International Journal on Computer Systems Science and Engineering (IJCSSE)* 26. 97-102.
  18. **Ali Mirza Mahmood**, MrithyumjayaRaoKuppa and Kiran Kumar Reddi (2010), " A New Decision Tree Induction Using Composite Splitting Criterion." *In Journal of Applied Computer Science and Mathematics (JACSM)*, no. 9 (4)/2010, Page no: 69-73.(JACSM is a CNCSIS Journal ranked B+).
  19. **Ali Mirza Mahmood** and Mrithumjaya Rao Kuppa (2010). "A Novel Approach using Expert Knowledge on Error based Pruning", Published in *Journal of Information and*

Knowledge Management, World Scientific Publishers.

20. **Ali Mirza Mahmood**, Nagananjanyulu Satuluri and Mrithumjaya Rao Kuppaa (2010). “An Overview of Recent and Traditional Decision Tree Classifiers in Machine Learning”, *In International Journal of Research and Reviews in Adhock Networks, Science Academy Publishers, United Kingdom, Vol 1, issue1, page no:9-12.*
21. **Ali Mirza Mahmood** & K.Mrutunjaya, Rao & Kumar Reddi, Kiran. (2010). A Novel Algorithm for Scaling up the Accuracy of Decision Trees. *International Journal on Computer Science and Engineering (IJCSE)* Vol.02, No. 02, 2010, Page no: 126- 131.
22. Kiran Kumar Reddi, **Ali Mirza Mahmood**, K.Mrithumjaya Rao (2010).“Generating Optimized Decision Tree Based on DiscreteWavelet Transform.”, *In International Journal of Engineering Science and Technology (IJEST)*Vol.2(3), 2010,Page no:157-64.
23. **Ali Mirza Mahmood** & Pavani, Kapavarapu & Gopal Kavuluru, Venu & Rao Kuppaa, Mrithumjaya. (2010). “A New Pruning Technique for Better and Compact Decision Tree.”, *In International Journal on Computer Science and Engineering (IJCSE)*”, Vol. 02, No. 08, 2010, Page no: 2551- 2558.
24. Sravan Kumar Jonnalagadda, Subha Sree Mallela and **Ali Mirza Mahmood** (2010).“A Strategic Approach for Implementing Intrusion Detection.”, Communicated to *International Journal of Research and Reviews in Computer Science (IJRRCS)*”, Academy Publishers, United Kingdom.

## 6.2 Conference Publications

1. Arshad Ahmad Khan Mohammad, **Ali Mirza Mahmood**, SrikanthVemuru “ Reactive Energy Aware Routing Selection Based on Knapsack Algorithm (RER-SK)”,Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India CSI Volume 2Volume 338 of the series Advances in Intelligent Systems and Computing pp 289-298.
2. **Ali Mirza Mahmood** & Imran, Mohammad & Satuluri, Nagananjanyulu & Rao Kuppaa, Mrithumjaya & Vemulakonda, Rajesh. (2011). An Improved CART Decision Tree for Datasets with Irrelevant Feature. **Springer-Verlag Berlin Heidelberg**. LNCS 7076. pp. 539–549. 10.1007/978-3-642-27172-4\_64.
3. **Ali Mirza Mahmood**, “AN EMPIRICAL EXPERIMENTAL EVALUATION ON IMBALANCED DATASETS WITH VARIED IMBALANCE RATIO”, Presented in ICCCT-2014-OU CONFERENCE, Hyderabad, Indexed in **IEEE EXPLORE**.

4. **Ali Mirza Mahmood**, “PERFORMANCE CALCULATION OF AODV USING SIMULATION KNOWLEDGE (SK) for Mobile Ad hoc Networks”, Presented in ICCCT-2014-OU CON
5. **Ali Mirza Mahmood** et al., “A NOVEL FRAMEWORK FOR INDUCTIVE LEARNING FROM IMBALANCED DATA SETS USING UNIFORM-SAMPLING”, In *3<sup>rd</sup>National Conference on Emergig&IovativeTreds I Computer Scice (NCEITCS 2014)*, Page no:24-29, 1 – 2April 2014,Hyderabad, India.
6. Md. Ali Hussain, M. KameswaraRaoand **Ali Mirza Mahmood**, “An Optimized Approach to generate Simplified Decision Trees”, In *IEEE International Conference on Computational Intelligence and Computing Research (ICCIC 2013)*, Page no:1-5, 26 – 28 December, 2013,Madhurai, India. **Indexed in IEEE Explore.**
7. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2010). A composite splitting criterion using random sampling. 26-32. 10.1109/INTERACT.2010.5706188. **Indexed in IEEE Explore.**
8. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2011). Early Detection of Clinical Parameters in Heart Disease by Improved Decision Tree Algorithm. Proceedings - 2nd Vaagdevi International Conference on Information Technology for Real World Problems, VCON 2010. 24 - 29. 10.1109/VCON.2010.12. **Archived in IEEE Computer Society Digital Library.**
9. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2011). A Novel Pruning Approach Using Expert Knowledge for Intelligent Inexact Classification. Proceedings - In *IEEE 2<sup>nd</sup>International Conference on Emerging Applications on Information Technology (CSI-EAIT 2011) Acceptance Rate less than 30%* ,Page no: 126- 131, 19-20 February, 2011, Kolkata, India. Archived in **IEEE Computer Society Digital Library**. . 117 - 120. 10.1109/EAIT.2011.74.
10. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2010). Improving the efficiency of biomarker identification using expert knowledge. Proceedings of the 2nd International Conference on Trendz in Information Sciences and Computing, TISC-2010. Page no: 118-122, 10.1109/TISC.2010.5714618. **Indexed in IEEE Explore.**
11. **Ali Mirza Mahmood** & Rao Kuppa, Mrithyumjaya. (2010). A novel pruning approach using expert knowledge. 33-38. 10.1109/INTERACT.2010.5706189. **Indexed in IEEE Explore.**

- 12. Ali Mirza Mahmood & Rao Kuppaa, Mrithyumjaya.** (2010). A novel classifier using random sampling and expert knowledge. Proceedings of the 2nd International Conference on Trendz in Information Sciences and Computing, TISC-2010. 10.1109/TISC.2010.5714596.  
**Indexed in IEEE Explore.**
- 13. Ali Mirza Mahmood & Rao Kuppaa, Mrithyumjaya & Sai Phani Chandu, V.** (2011). An efficient algorithm for induction with random sampling. *In IEEE International Conference on Emerging Trends in Electrical and Computer Technology (ICETECT 2011)* , presented on 23&24 March, 2011, Kanyakumari, India. **Indexed in IEEE Explore.** ICETECT 2011. 691-696. 10.1109/ICETECT.2011.5760206.
- 14. Ali Mirza Mahmood, Mohammad Imran, NaganjaneyuluSatuluri, MrithyumjayaRaoKuppaa and Vemulakonda Rajesh,** “An Improved CART Decision Tree for Datasets with Irrelevant Feature” In Swarm, Evolutionary, and Memetic Computing Second International Conference, SEMCCO 2011, Visakhapatnam, Andhra Pradesh, India, December 19-21, 2011,Lecture Notes in Computer Science, 2011, Volume 7076/2011, 539-549, DOI:10.1007/978-3-642-27172-4\_64.

### 6.3 Journals Communicated

- 15. Ali Mirza Mahmood** “A Comprehensive Study on Learning Strategies in Data Mining” Communicated to *Advances in Data Analysis and Classification, Springer*
- 16. Ali Mirza Mahmood** “An Overview of Class Imbalance Learning in Knowledge Discovery” Communicated to *Advances in Data Analysis and Classification, Springer*
- 17. Ali MirzaMahmood and MrithumjayaRaoKuppaa,** “Heart Disease Risk Factor Identification by Classifier Using Randomization and Expert Knowledge” ,Communicated to *Artificial Intelligence in Medicine, Elsevier*, Impact Factor 2.447 .
- 18. Ali MirzaMahmood and MrithumjayaRaoKuppaa,** “An Effective Decision Tree Induction with Randomized Gain Ratio for Applicability in Medical Analysis”, Communicated to *ACM Transactions on Knowledge Discovery from Data, ACM Publications*, Impact Factor 0.546.
- 19. Ali MirzaMahmood and MrithumjayaRaoKuppaa,** “A Machine Learning Approach Using Randomization and Expert Knowledge” Communicated to *Computational Intelligence, John Wiley Publications*, Impact Factor 5.502 .
- 20. Ali MirzaMahmood and MrithumjayaRaoKuppaa,** “A Machine Learning Approach Using Wrapper” Communicated to *Machine Learning, Springer-Verlag, London*, Impact Factor 1.663.

## **7 Conference Programme Committee Member:**

Served as a Program Committee (PC) Member for 5th International Conference on Information Systems, Technology and Management (ICISTM) – 2011,  
<http://www.icistm.org/>

## **8. Extra Activities**

- Participated in Curriculum (Syllabus) revision for KL University, and Krishna University.
- Judge for Students Paper Presentations at several colleges (MIST, KL University etc).
- Guest Faculty, Resource person at Krishna University.