

Dr. ASHA.T

Professor & Head
Department of Computer Science & Engineering,
Bangalore Institute of Technology,
Bangalore, Karnataka
INDIA

Email: asha.masthi@gmail.com, ashat@bit-bangalore.edu.in

Office: 080-26613237,

Research Interest : Data mining, Pattern recognition, Artificial Intelligence, Medical Informatics and imaging, Web Technologies

Employment Record

Totally 23 yrs. of Teaching Experience in various Educational Institutions

- **Presently working as PROFESSOR & HEAD in the Dept. of CS&E(since Feb. 2018)**
BANGALORE INSTITUTE OF TECHNOLOGY, Bangalore
- **PROFESSOR in the Dept. of CS&E(Dec 2012- Jan.2018)**
BANGALORE INSTITUTE OF TECHNOLOGY, Bangalore
- **ASSOCIATE PROFESSOR in the Dept. of ISE(Aug 2001- Dec 2012)**
BANGALORE INSTITUTE OF TECHNOLOGY, Bangalore
- **Lecturer (HOD I/C) in the Department of CSE(oct 1999-july 2001)**
K.S.I.T. Bangalore
- **Teaching Assistant(Mar 1997- Apr 1998)**
U.V.C.E. Bangalore
- **Lecturer (Sept 1995-Mar 1997)**
D.S.I.T. Bangalore

Educational Qualifications

- ⇒ **Ph.d in Computer and Information science, 2012 for the thesis entitled, “Novel soft computing approaches for the identification of Tuberculosis” Guide: Dr. K N Balasubramanya Murthy. Co-guide: Dr. S Natarajan**
Visvesvaraya Technological University, Belgaum
- ⇒ **Master of Engineering (ME) – Computer Science, 2000**
B.M.S. college of Engineering. B'lore University
- ⇒ **Bachelor of Engineering (BE) –Computer Science, 1994**
B.I.T. B'lore University

Membership bodies: Life member of ISTE, IACSIT, CSI chapter

Awards:

Dr.APJ Abdul Kalam life time achievement award for Teaching, Research & Publications.

Project award:

“Automated Malarial Parasite detection” a student project proposal selected by Karnataka science and technology for the year 2015.

Ph.D Guidance: Guiding 5 students under VTU

Professional Activities:

1. Delivered talks and chaired sessions in various international conferences.
2. Evaluator of projects in various project Expo conducted by technical colleges.
3. Reviewer for various International conferences and journals
4. Guiding students on real time projects
5. Chief NAAC Coordinator for the Institution

Workshops conducted:

1. Coordinated a National level 3 day workshop on Machine Intelligence and Imaging Technologies in 2013.
2. Coordinated Android workshop twice and HTML 5.0 workshop in BIT, 2014& 2015.
3. Conducted hands on IOT workshop for students to enhance their skills in project execution in 2016
4. Conducted 3 days hands on workshop on Cyber Security & Ethical Hacking,2017
5. Conducted 2 days hands on workshop on Cloud computing & Virtualization in 2017
6. Conducted 3 day hands on workshop on Python with Machine learning & AI, 2018

University activity:

1. Member of Ph.D Registration Expert committee in Computer science& Engineering 2016
2. Member of VTU-Prasaranga
3. VTU e-news letter editorial committee member 2016
4. VTU LIC committee member 2017 and 2018

Publications

- **International Journals -17**
- **International Conference Publications – 10**
- **National Conference Publications – 4**
- **Book chapter-2**

List of few peer reviewed journals and conferences

- [1] Asha.T, Dr. S. Natarajan, Dr. K.N.B.Murthy, “Association Rule Based Tuberculosis Disease Diagnosis”, Proc. of International Conference on Digital Image Processing, published by SPIE, Singapore, Volume 7546, pages 75462Y1-6, February 2010.
- [2] Asha.T, Dr. S. Natarajan, Dr. K.N.B.Murthy, “Statistical Classification of Tuberculosis using Data Mining Techniques”, Proc. of International Conference on Information Processing, UVCE, Bangalore, INDIA, pages 45-50, August 2010.
- [3] Asha.T, Dr.S. Natarajan, Dr. K.N.B.Murthy, “Diagnosis of Tuberculosis using Ensemble Methods”, Proc. of 3rd IEEE International Conference on Computer Science and Information Technology (ICCSIT), Chengdu, China, Volume 8, pages 409-412, July 2010.
- [4] Asha.T, Dr. S. Natarajan, Dr. K.N.B.Murthy, “Associative Classification in the Prediction of Tuberculosis”, Proc. of International Conference and Workshop on Emerging Trends in Technology (ICWET), published by ACM, TCET, Mumbai, INDIA, pages 1327-1330, February 2011.
- [5] Asha.T, Dr. S. Natarajan, Dr. K.N.B.Murthy, “A Study of Associative Classifiers with Different Rule Evaluation Measures for Tuberculosis Prediction” IJCA special issue on Artificial Intelligence Techniques-Novel Approaches and Practical Applications AIT, 2011.
- [6] Asha.T, Dr. S. Natarajan, Dr. K.N.B.Murthy, “ A Hybrid Approach to the Diagnosis of Tuberculosis by Cascading Clustering and Classification” Journal Of Computing, Volume 3, issue 4, ISSN 2151-9617, April 2011.
- [7] Asha.T, Dr. S. Natarajan, Dr. K.N.B.Murthy, “Effective Classification Algorithms to Predict the Accuracy of Tuberculosis- A Machine Learning Approach”, IJCSIS, Volume 9, No.7, ISSN 1947-5500, July 2011
- [8] Asha.T, Dr. S. Natarajan, Dr. K.N.B. Murthy “Data Mining Techniques in the Diagnosis of Tuberculosis”, chapter published for a book entitled “Understanding Tuberculosis-Global experiences and Innovative Approaches to the Diagnosis” INTECH, January 2012.
- [9] Asha.T, Dr. S. Natarajan, Dr. K.N.B.Murthy, “Estimating the Statistical Significance of Classifiers Used in the Prediction of Tuberculosis” , IOSR-JCE, ISSN : 2278-0661 Volume : 5 Issue : 5, Sept.2012
- [10] Asha.T, Shravanthi U.M, Nagashree N, Monika M, “Building Machine Learning Algorithms on Hadoop for Bigdata”, International Journal of Engineering and Technology, ISSN: 2049-3444, Volume 3, No.2, February 2013.
- [11] Asha.T, Dr. S. Natarajan, Dr. K.N.B. Murthy, “Optimization of Association Rules for Tuberculosis using Genetic Algorithm”, International journal of computing, ISSN:1727-6209, Volume 12, issue 2, June 2013.
- [12] Nibedita, Asha.T, “A Comprehensive Analysis on Domain Specific Ontology based Data Extraction and Annotation”, International conference on Computing and Communications – August 2014, Elsevier publication, pp233-241

- [13] Somesh chavadi, Asha.T, “ Text Mining Approach for Big Data Analysis Using Clustering and Classification Methodologies”, *International Journal of Emerging Technology and Advanced Engineering*, Volume 4, Issue 8, ISSN 2250-2459, August 2014.
- [14] Kaveri B V , Asha.T “An Ameliorated Methodology for Feature Subset Selection on High Dimensional Data using Precise Relevance Measures”, *International Journal of Computer Applications (0975 – 8887) Volume 127 – No.7, October 2015, PP-32-36*
- [15] Dr.Asha.T, Deepa, Sowmya, Saritha, Vinuthna, “Comprehensive study on security aspects related to malicious Rootkits”, 8Th KSTA Annual conference on Science & Technology for GenNext URBAN Space 2015
- [16]Rashmi. J, Dr. Asha. T “A Friend Recommendation System based on Similarity Metric and Social Graphs”, *International Journal of Advanced Networking & Applications (IJANA) special issue*, pp 456-460, ISSN: 0975-0282.
- [17] Divya D S, Asha T, “Similarity based Matching Approach for User Identity across Multiple Social Platforms”, *International Journal of Innovative Research in Computer and Communication Engineering*, Vol. 4, Issue 7, July 2016
- [18] Dr. Asha T, Deepak R, Swaroop Aradhya M C, Aishwarya M G, Geetha B S,”Automated Malaria Parasite Detection based on Image Processing”, *International Journal for Research in Technological Studies, Vol. 3, Issue 2, January 2016 , ISSN (online): 2348-1439*
- [19] AbhishekSingh Sambyal, Dr.Asha T, “Knowledge Abstraction from Textural Features of Brain MRI Images for Diagnosing Brain Tumor using Statistical Techniques and Associative Classification”, 2016 IEEE International Conference on Systems in Medicine and Biology, 4-7 January 2016, IIT Kharagpur
- [20] H. Roopa and T. Asha, "Segmentation of X-ray image using city block distance measure," *Proc. of 2016 International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT)*, Kumaracoil, 2016, pp. 186-189
- [21] Dr. Asha T, Shobha N, “Monitoring Weather based Meteorological Data: Clustering approach for Analysis”, *Proc. of IEEE - International Conference on Innovative Mechanisms for Industry Applications (ICIMIA-2017)*, 978-1-5090-5960-7/17.
- [22] Dr.Asha T, RavinderSingh, S K Chandan, V Sachin and S Surya, “Visualization Model for Viral Marketing”, *International Journal of Soft Computing, Vol. 11, Issue 6, 2016, ISSN: 1816-9503*
- [23]Pooja G R, Sameeksha M and Dr. Asha T, “Recommendation of Hashtags for Effective Organization of Tweets Using Frequent Pattern Mining” ,*European Journal of Advances in Engineering and Technology , Vol.4 ,Issue 5, 2017:383-389.*
- [24] Vinuthna Seethamsetty, Dr.Asha T, “Extending Qlik Sense Data Visualization and embedding it in Web Application”, *International Journal of Innovative Research in Technology, Vol. 4, Issue 3, August 2017, ISSN:2349-6002.*
- [25] Priya S M and Dr.Asha T, ”Automatic Detection and Blocking of cyberbullying by Relatedness Calculation and Clustering”, *International Journal of Innovative Research in Technology, Vol. 4, Issue 3, August 2017, ISSN:2349-6002.*
- [26] Maya B S, Asha.T, “Biologically Rationalized Computing Techniques For Image Processing Applications” book chapter published in springer LNCVB series, vol.25, PP-85-109, Sept. 2017
- [27] Roopa H, Asha T.” Feature Extraction of Chest X-ray Images and Analysis Using PCA and kPCA”. *International Journal of Electrical and Computer Engineering (IJECE)*. 2018 Oct 1;8(5).