

Dr. H L SHASHIREKHA

Associate Professor



Educational Details

Ph.D (2010)

Title: Ontology-based mining for the recognition and classification of conceptually similar documents

M.Sc (1990-1992) Master of Science in Computer Science from University of Mysore. Secured 71.21% of Marks

B.Sc (1987-1990) Bachelor of Science in Physics, Electronics and Mathematics from University of Mysore. Secured 69.77% of Marks

Additional

Qualified in National Education Test (1996) accredited by UGC, which is mandatory for any faculty position in Universities

Professional Experience

August 2011 onwards – Associate Professor, Department of Studies in Computer Science, Mangalore University, Mangalore.

August 2008 to August 2011 - Selection Grade Lecturer, Department of Studies in Computer Science, Mangalore University, Mangalore.

August 2003 to August 2008 – Senior Scale Lecturer, Department of Studies in Computer Science, Mangalore University, Mangalore.

August 1997 to August 2003 – Lecturer, Department of Studies in Computer Science, Mangalore University, Mangalore.

Professional Recognition

1. Involved in framing syllabus for M.Sc (Computer Science) and M.Sc (Information systems), Mangalore University
2. Assisted the Chairman of the Department of Studies in Computer Science, Mangalore University in designing and implementing M.Sc (Computer Science), M.Sc (Information Systems and M.C.A (Master of Computer Applications) programmes
3. Have been guiding several M.C.A, M.Sc (Computer Science) for project works
4. Served as member of Board of Examiners (PG) in Computer Science, Bioinformatics and Chairperson, Board of Examiners (PG) in Computer Science, Mangalore University

5. Served as external member of Board of Studies (UG) in Computer Science of University of Mysore, and Board of Examiners (UG & PG) of University of Mysore and Bangalore University
6. Have been a member of the selection committee, admission to M.Sc (Computer Science) and M.C.A (Master of Computer Applications) programmes of Mangalore University
7. Have been actively involved in teaching PG programs such as M.Sc (Computer Science) and M.C.A (Master of Computer Applications)

Research Recognition

1. Presented papers in National and International Conferences
2. Published papers in National and International Conferences and Journals
3. Guided several projects at M.Sc / M.C.A / M.Tech level

Research Scholars working towards Doctoral Degree: 07

Research Topics

1. Query-By-Humming based Music Information Retrieval System for Indian Music
2. Parallel-Incremental :Learning for the Classification of Text Documents
3. Classification of XML documents
4. Natural Language Processing of Kannada documents
5. Data mining techniques for the analysis of gene expression data for the classification of lung cancer

Member of Academic Bodies

- Member of Faculty of Science & Technology, Mangalore University
- Member of Board of Examiners (UG & PG)
- Member of Board of Studies (PG)
- Member of Local Inspection Committee

Extension work

- Served as Treasurer of Vishwamangala Education Society from October 2005 – November 2008
- Coordinator of the Day Care Center, Mangalore University since February 2009
- Serving as Secretary of Vishwamangala Education Society from November 2009
- Warden, Working Women's Hostel, Mangalore University from January 31st 2011 to January 31st 2013
- Warden, University Hostel for Women, Mangalore University from December 5th 2012

Areas of Interest

Academic Interest

Data Structures, Analysis and Design of Algorithms, Compiler Design, Theory of Computation, Object Oriented Programming, Operating systems, Bioinformatics

Research Interest

Text Classification, Text mining, Semantic Web, Bioinformatics, Document Image Processing

Research Publications

In International Journals

1. "Content and Structure Based Classification of XML Documents", In International Journal of Machine Intelligence, Vol. 3(4), pp. 376-380, 2011.
2. "Text Matching – A Case Study of Unnatural Language Text Document", In International Journal of Information Science & Application, pp.531-537, Vol. 2, No. 3, 2010.
3. "Constructing Domain Ontologies for Unstructured Text Documents: A Bootstrapping Approach", In International Journal of Information Processing, Vol. 4 No. 1, pp. 9-21, January 2010.
4. "Segmentation and labeling of Domain Specific Unstructured Documents: A Heuristic Approach Based on Cues", In International Journal of Computer Science and Information Technology, Vol.1, No.2, pp.85-92, December 2008.
5. "Hierarchical Representation for a Classified Page of a Newspaper". In International Journal of Systemics, Cybernetics and Informatics, pp. 66-72, Jan 2008.

In International Conference Proceedings

1. "Using Ontology for Domain Specific Information Retrieval", In *Proc. of 2nd International Conference on Digital Image Processing (ICDIP 2010)*, Edited by Jusoff, Kamaruzaman; Xie, Yi. Proceedings of the SPIE, Volume 7546, pp. 75463J-75463J-7, Singapore, February 2010.
2. "Matching Unnatural language Text Documents", In *Proc. of IEEE Bangalore Section -18th Annual Symposium on Emerging Needs in Computing, Communication, Signals and Power, ENC2SP 2009*, Bangalore, August 2009. (Best paper award for the session).
3. "Ontology based similarity measure for Text Documents", In *Proc. of International Conference on Signal & Image Processing, ICSIP 2009*, Mysore, pp. 602-606, August 2009.
4. "Constructing Domain Ontologies for Unstructured Text Documents: A Bootstrapping Approach", In *Proc. of 3rd International Conference on Information Processing ICIP'09*, Bangalore, pp.3-12, August 2009.
5. "Segmentation of domain specific unstructured documents: A heuristic approach based on cues". In *Proc. of International Conference on Cognition and Recognition ICCR'08*, Mysore, pp.114-119, April 2008 (Best paper award for the session).
6. "Ontology Based Structured Representation for Domain Specific Unstructured Documents", In *Proc of International Conference on Computational Intelligence and Multimedia Applications ICCIMA'07* at Sivakasi, Tamilnadu, India, pp.50-54, December 2007.
7. "Re-Construction of a Tree from its Preorder Traversal", In *Proc. of International Conference on Advances in Computer Vision and Information Technology ACVIT-07*, at Aurangabad , Maharashtra, India, pp.1095-1099, Nov 2007.
8. "Segmenting and Labeling a Classified page in a newspaper". In *Proc. of IEEE-International conference on Signal and Image Processing (ICSIP)-2006* held at BVB College of Engineering & Technology, Hubli, India, pp.604-609, Dec 2006.

9. "Taking ICT to the rural women", *In Proc. of International Conference on Gender Issues in E-society (WIT – 2005)*, Annamalai University, Tamilnadu, India, Dec 2005 (Presented the paper)
10. "World Wide Web - An intelligent and user friendly digital library", *In Proc. of 4th International Convention CALIBER 2006 on Dynamic Interoperable Web based Information Systems*, Gulbarga University, Gulbarga, Feb 2006 (Presented the paper)

In National Conference Proceedings

1. "Preservation of Digital Data: Need of the Day", *In Proc. National Conference on Knowledge, Knowledge Banks and Information Networking*, National Institute of Technology, Karnatak, Suratkal, April 2010.
2. "Retrieval of information from a classified page", *In First National Conference on Image Processing, Computer Vision and Pattern Recognition*, organized by PES College of Engineering, Mandya, August 2009.
3. "Information and Communication Technology in Educational institutions: A Case study of Mangalore University", *In SETRAD*, Thiruchirapalli, Feb 2005.
4. "Connecting rural women to the world: An Indian Experience", *In National Seminar on Women in Science and Technology: Issues and Prospects (WISTIP – 2005)*, Dept of Humanities and Social Sciences, National Institute of Technology, Rourkela, Jan 2005.
5. "Text Mining – A new perspective in Document Analysis: An overview", *In Proc. of National Conference on Document Analysis and Recognition*, PES College of Engineering, Mandya, July 2003. (Presented the paper)

9.4 Book chapter

1. "Impact of Student Internet world – 2004 on school children- A study in Mangalore Taluk". A Book Chapter in "Children Youth and Electronic media" edited by Dr. Subhash R.Joshi, Nov 2005.