

Muhammad Abulaish, Ph.D.

Associate Professor & Head
Department of Computer Science
Jamia Millia Islamia (A Central University)
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TEACHING & RESEARCH EXPERIENCE

University Teaching: More than 13 years

Research (post PhD): More than 7 years

Research Area: [Data Analytics](#), [Web Intelligence](#), [Security Informatics](#), and [Digital Forensics](#)

PUBLICATIONS

Research Papers: 69 (List of selected publications attached)

Books: 02 (One with LAP, Germany, and the other is under print)

COMPLETED RESEARCH PROJECTS

Title: A Web Surveillance Framework for Criminal Networks Identification and Monitoring

Approved budget: 1.23 Million Saudi Riyal (approx. US \$328,000)

Funding agency: King Abdulaziz City for Science & Technology (KACST) under Saudi NPST plan

Duration: 2 Years

ACADEMIC QUALIFICATIONS

PhD, Indian Institute of Technology (IIT) Delhi, India

Master of Computer Applications (MCA), MNNIT, Allahabad, India

B. Sc. Maths. (Hons), BSBRA Bihar University Muzaffarpur, India

EMPLOYMENT HISTORY

Head, Department of Computer Science, Jamia Millia Islamia, Delhi, India, January 2013 to present.

Reader/Associate Professor, Department of Computer Science, Jamia Millia Islamia, Delhi, India, February 2009 to present.

Associate Professor, Centre of Excellence in Information Assurance, King Saud University, Riyadh, Saudi Arabia, October 2010 to December 2012 (*on leave from Jamia Millia Islamia*).

Assistant Professor, Department of Computer Science, King Khalid University, Abha, Saudi Arabia, August 2007 to January 2009 (*on leave from Jamia Millia Islamia*).

Sr. Lecturer in Computer Science, Department of Mathematics, Jamia Millia Islamia, Delhi, India, September 2006 to February 2009.

Lecturer in Computer Science, Department of Mathematics, Jamia Millia Islamia, Delhi, India, January 2004 to August 2006

Lecturer, Department of Computer Science, Jamia Hamdard University, Delhi, India, September 2000 to December 2003

Systems Officer, Professional Education Division, UPTEC Computer Consultancy Ltd., Lucknow, India, June 1998 to August 2000 (*Posted at Allahabad Centre*)

SUPERVISION AND GUIDENCE

Ph.D.: 04

Jahiruddin, *Text Mining for Knowledge Discovery from Domain-Specific Texts* (**awarded**)

Tanvir Ahmad, *Frequent and Sequential Patterns Mining and their Applications* (**awarded**)

Ahmad Kamal, *Mining Web Opinion Sources using Machine Learning Techniques* (**awarded**)

Sajid Yousuf Bhat, *Structural Data Mining Framework for Social Network Analysis* (**awarded**)

MS/ Bachelor Degree Projects: More than 30

PROFESSIONAL ACTIVITIES

Reviewer of Journals

IEEE Transactions on Knowledge & Data Engineering

IEEE Transactions on Computational Biology & Bioinformatics

Web Intelligence & Agent Systems – An International Journal, IOS Press, Netherlands

Information Systems – An International Journal, Elsevier Publications

Knowledge and Information Systems – An International Journal, Springer Publications

Editorial Board Member

Journal of Emerging Technologies in Web Intelligence, Academy Press, Finland (*since 2010*)

Program Committee Member (Selected)

IEEE/WIC/ACM Web Intelligence (2014, 2013, 2012, 2008, 2007), **KDIR** (2014, 2013, 2010, 2009), **DATA** (2014, 2013, 2012), **ACM CIKM** (2012), **ICSOFT** (2011, 2010, 2009, 2008, 2007), **IICAI** (2011), **PAKDD** (2010), **BIOKDD** (2008, 2007)

PROFESSIONAL MEMBERSHIPS

Senior Member, *Institute of Electrical and Electronics Engineers (IEEE)*, USA

Senior Member, *Association for Computing Machinery (ACM)*, USA

Senior Member, *Computer Society of India (CSI)*, India

Member, *IEEE Computer Society*, USA

Member, *ACM Special Group on Knowledge Discovery and Data Mining (ACM SIGKDD)*, USA

Life Member, *Indian Society for Technical Education (ISTE)*, India

Life Member, *Indian Science Congress Association (ISCA)*, India

Life Member, *Institution of Electronics and Telecommunication Engineers (IETE)*, India

INVITED TALKS

Towards a Knowledge-Based Web Surveillance Framework, Rensselaer Polytechnic Institute (RPI), Troy, New York, USA on April 15, 2011

Social Network Analysis – an intelligence perspective, Center of Excellence in Information Assurance, King Saud University, Saudi Arabia on 12th December 2011.

SNAnalyst: A Data Mining Framework for Social Network Analysis, International Workshop on Advances in Information Assurance Research, Center of Excellence in Information Assurance, King Saud University, Saudi Arabia, May 15-16 2011.

User (Suspect) Profiling and Tracking on the Web, International Workshop on Advances in Information Assurance Research, Center of Excellence in Information Assurance, King Saud University, Saudi Arabia, May 15-16 2011.

SELECTED PUBLICATIONS (out of over 69)

1. Sajid Y. Bhat and **Muhammad Abulaish**, HOCTracker: Tracking the Evolution of M Hierarchical and Overlapping Communities in Dynamic Social Networks, **IEEE Transactions on Knowledge and Data Engineering**, ISSN: 1041-4347, 2014. (accepted)
2. Sajid Y. Bhat and **Muhammad Abulaish**, OCMiner: A Density-Based Overlapping Community Detection Method for Social Networks, **Intelligent Data Analysis**, **19(4)**, IOS Press, Netherlands, ISSN: 1088-467X, 2015. (accepted)
3. Tarique Anwar and **Muhammad Abulaish**, Namesake Alias Mining on the Web and its Role Towards Suspect Tracking, **Information Sciences, Elsevier**, ISSN: 0020-0255, Feb. 2014.
4. Sajid Y. Bhat and **Muhammad Abulaish**, Analysis and Mining of Online Social Networks - Emerging Trends and Challenges, **WIREs Data Mining and Knowledge Discovery, John Wiley and Sons.**, pp. 408-444, Nov/Dec 2013.
5. Faraz Ahmed and **Muhammad Abulaish**, A Generic Statistical Approach for Spam Detection in Online Social Networks, **Computer Communications**, **36(10-11)**, Elsevier, pp. 1120-1129, June 2013.
6. **Muhammad Abulaish** and Lipika Dey, Information Extraction and Imprecise Query Answering from Web Documents, **Web Intelligence & Agent Systems – An International Journal**, **4(4)**, IOS Press, Netherlands, pp. 1-24, 2006.
7. **Muhammad Abulaish**, Jahiruddin, and Lipika Dey, Deep Text Mining for Automatic Keyphrase Extraction from Text Documents, **Journal of Intelligent Systems (JIS)**, De Gruyter, Germany, 2011.
8. **Muhammad Abulaish** and Tarique Anwar, A Keyphrase-Based Tag Cloud Generation Framework to Conceptualize Textual Data, **International Journal of Adaptive, Resilient and Autonomic Systems**, **4(2)**, IGI Global, pp. 72-93, 2013.
9. **Muhammad Abulaish** and Lipika Dey, Biological Relation Extraction and Query Answering from Medline Abstracts using Ontology-based Text Mining, **Data & Knowledge Engineering** **61(2)**, Elsevier, 2007, pp. 228-262.
10. Jahiruddin, **Muhammad Abulaish**, and Lipika Dey, A Concept-Driven Biomedical Knowledge Extraction and Visualization Framework for Conceptualization of Text Corpora, **Journal of Biomedical Informatics**, **43(6)**, Elsevier, pp. 1020-1035, 2010.
11. **Muhammad Abulaish** and Jahiruddin, Web-Content Mining for Learning Generic Relations and their Associations from Textual Biological Data, **Biological Knowledge Discovery Handbook: Preprocessing, Mining and Post-processing of Biological Data**, Mourad Elloumi and Albert Y. Zomaya (Eds.), John Wiley & Sons Inc., New Jersey, pp. 919-942, 2013.
12. Tarique Anwar and **Muhammad Abulaish**, Modeling a Web Forum Ecosystem into an Enriched Social Graph, Martin Atzmueller, Alvin Chin, Denis Helic, and Andreas Hotho (Eds.), **Ubiquitous Social Media Analysis, LNCS Vol. 8329, Springer**, pp. 152-152, 2013.
13. Sajid Y. Bhat and **Muhammad Abulaish**, Community-Based Features for Identifying Spammers in Online Social Networks, In Proceedings of the **IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'13)**, Niagara Falls, Canada, Aug. 25-28, 2013.
14. Tarique Anwar and **Muhammad Abulaish**, Identifying Cliques in Dark Web Forums – An Agglomerative Clustering Approach, In Proceedings of the **10th International Conference on Intelligence and Security Informatics (IEEE-ISI)**, Washington DC, USA, pp. 171-174, June 11-14, 2012.