

Professional Qualifications:

- Ph. D(JNU, New Delhi)
- M. Tech(JNU, New Delhi)

Teaching Experience (in Years): 6.5 years

Subjects of interest:

- Natural Language Processing
- Data/Web Mining
- Information Security
- Grid and Cloud Computing
- Computer Network

Academic achievements:**1. International Journals(10)**

- 1) **Jagendra Singh** and Aditi Sharan, "A new fuzzy logic based query expansion model for efficient information retrieval using relevance feedback approach", Neural Computing And Applications, Springer, pp. 1-24, 2016. (SCI with Thomson Reuters Impact Factor: 1.640)
- 2) **Jagendra Singh**, Mukesh Prasad, Om Kumar Prasad, Er Meng Joo, Amit Kumar Saxena and Chin-Teng Lin, "A novel fuzzy logic model for pseudo-relevance feedback-based query expansion", International Journal of Fuzzy Systems, Springer, pp. 1-10, 2016. (SCI with Thomson Reuters Impact Factor:0.941)
- 3) **Jagendra Singh**, "Ranks aggregation and semantic genetic approach based hybrid model for query expansion", International Journal of Computational Intelligence Systems, Atlantis Press, Vol. 10, pp. 34-55, 2016. (SCI with Thomson Reuters Impact Factor: 0.528)
- 4) **Jagendra Singh** and Aditi Sharan, "Relevance feedback based query expansion model using ranks combining and word2vec approach", IETE- Journal of Research, Taylor & Francis, 2016. (SCIE with Thomson Reuters Impact Factor: 0.185)
- 5) **Jagendra Singh** and Aditi Sharan, "Relevance feedback based query expansion model using Borda count and semantic similarity approach", Computational Intelligence and Neuroscience, Article ID: 568197, pp. 1-14, 2015. (SCIE with Thomson Reuters Impact Factor: 0.591)
- 6) **Jagendra Singh** and Aditi Sharan, "Term co-occurrence and context window based combined approach for query expansion with the semantic notion of terms" International Journal of Web Science, Inderscience, 2016. (DBLP Indexed)
- 7) **Jagendra Singh** and Aditi Sharan, "Context window based co-occurrence approach for improving feedback based query expansion in information retrieval", International Journal of Information Retrieval Research, IGI, Vol. 5, No. 4, pp. 32-46, 2015. (DBLP Indexed)
- 8) Mukesh Prasad, Dong-Lin Li, Chin-Teng Lin, **Jagendra Singh** and Shiv Prakash, "Designing mamdani-type fuzzy reasoning for visualizing prediction problems based on collaborative fuzzy clustering", IAENG International Journal of Computer Science, vol. 42, no. 4, pp. 404-411, 2015. (DBLP Indexed)
- 9) **Jagendra Singh**, Aditi Sharan, and Sifatullah Siddiqi , "A literature survey on automatic query expansion for effective retrieval task", International Journal of Advanced Computer Research, Vol. 3, No. 3, pp. 170 - 179, 2013.

10) **Jagendra Singh** and Aditi Sharan, "Lexical chain based approach of term weight estimation in information retrieval", International Journal of Computational Intelligence Research, Vol. 9, No. 2, pp. 89-99, 2013.

2. International Conferences(8)

- 1) **Jagendra Singh** and Aditi Sharan, "Co-occurrence and semantic similarity based hybrid approach for improving automatic query expansion in information retrieval", Distributed Computing and Internet Technology, Lecture Notes in Computer Science (LNCS), Springer, Vol. 8956, pp. 415-420, 2015.
- 2) **Jagendra Singh**, Mukesh Prasad, C. T. Lin, Meng Joo Er. "A novel fuzzy logic model for pseudo relevance feedback based query expansion", iFUZZY, IEEE, 2015, Taiwan.
- 3) **Jagendra Singh**, Rakesh Kumar, Mukesh Prasad, Meng Joo Er. "A new approach of ranking query expansion terms with data envelopment analysis", iFUZZY, IEEE, 2015, Taiwan.
- 4) **Jagendra Singh**, Aditi Sharan. "Selecting good Pseudo-Relevance Feedback Documents using Co-training Approach for Automatic Query Expansion", WCI-2015, IEEE, 2015, IIT Kanpur, India.
- 5) Mukesh Prasad, C. T. Lin, Meng Joo Er, **Jagendra Singh**. "A novel data knowledge representation with collaborative fuzzy transfer rule for takagi sugeno kang type model", IEEE CICA, 2015, South Africa.
- 6) Aditi Sharan, Sifatullah Siddiqi, and **Jagendra Singh**, "Keyword extraction from hindi documents using statistical approach", Intelligent Computing Communication and Devices, Advances in Intelligent Systems and Computing, AISC Series, Springer, Vol. 309, pp. 507-513, 2015.
- 7) **Jagendra Singh** and Aditi Sharan, "A comparative study between keyword and semantic based search engines", International Conference on Cloud Big Data and Trust, RGPV Bhopal, India, pp. 13-15, 2013.
- 8) **Jagendra Singh**, "Query expansion using lexical knowledge of wordnet", International Conference on Cloud Big Data and Trust, RGPV Bhopal, India, pp. 135-137, 2013.

3. Book Chapter(2)

- 1) **Jagendra Singh** and Aditi Sharan, "Lexical ontology based computational model to find semantic similarity", intelligent computing networking and informatics, Advances in Intelligent Systems and Computing, AISC Series, Springer, Vol. 243, pp. 119-128, 2014.
- 2) **Jagendra Singh**, Mayank Saini, and Sifatullah Siddiqi, "Graph based computational model for computing semantic similarity", Emerging Research in Computing Information Communication and Applications, Elsevier, pp. 501-508, 2013.

Faculty Development Program/STTP/workshop Organized:

Faculty Development Program/STTP/workshop attended:

Honors and Awards Received:

- UGC-NET

Supervisory support provided:

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| 1. No. of PhD Supervision: | Completed: 0 | Ongoing: 0 |
| 2. No. of M Tech Thesis Guided: | Completed: 0 | Ongoing: 0 |

Membership of professional Societies:

- CSI – Computer Society of India