Azadeh Shakery

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Research Interests
- ▷ Text Information Management
- ▷ Information Retrieval
- ▷ Text and Data Mining and Analysis

Current Position and Education

- ▷ **Faculty of Engineering, University of Tehran**, Tehran, Iran
  Associate Professor, 2008 – now
  School of Electrical and Computer Engineering

- ▷ **University of Illinois at Urbana-Champaign**, IL, USA
  Ph.D. in Computer Science, 2002 – 2008
  Computer Science Department
  Thesis Title: "Probabilistic Score Propagation in Information Retrieval"

- ▷ **Sharif University of Technology**, Tehran, Iran
  M.Sc. in Software Engineering, 2000 – 2002
  Computer Engineering Department
  Thesis Title: "Page and Document Ranking on the Web"

- ▷ **Sharif University of Technology**, Tehran, Iran
  B.Sc. in Software Engineering, 1996 – 2000
  Computer Engineering Department
  Thesis Title: "FPGA Optimal Configuration Algorithm for Test"

Research Experience

- ▷ **School of ECE, Faculty of Engineering, University of Tehran**
  Associate Professor, 2008 – now

  - Multilingual Information Retrieval
  - Community Question Answering Systems
  - Text Mining in Social Networks
  - Conversational Information Retrieval
  - Hate Speech Detection
  - Expert Finding
  - Search Personalization
  - Recommender Systems
  - News Retrieval and Mining - Fake News Detection
  - Sentiment Analysis and Opinion Mining

▷ **Computer Science Department, University of Illinois**
Graduate Research Assistant, 2003 – 2007

– Probabilistic Score Propagation for Information Retrieval

– Multi-resolution Topic Maps for Information Navigation

– Mining Fuzzy Entity-Relation Graphs

▷ **Computer Engineering Department, Sharif University**
Graduate Research Assistant, Fall 2001 – Summer 2002

– Page and Document Ranking on the Web

Taught Courses

▷ Intelligent Information Retrieval (Graduate Level)

▷ Data Mining (Graduate Level)

▷ Database Systems

Publications

▷ Peyman Rostami, Azadeh Shakery. A deep learning-based expert finding method to retrieve agile software teams from CQAs. *Information Processing & Management*, 60(2), 2023.

▷ Parisa Bazmi, Masoud Asadpour, Azadeh Shakery. Multi-view co-attention network for fake news detection by modeling topic-specific user and news source credibility. *Information Processing & Management*, 60(1), 2023.

▷ Alireza Salemi, Emad Kebriaei, Ghazal Neisi Minaei, Azadeh Shakery.ARMAN: Pre-training with Semantically Selecting and Reordering of Sentences for Persian Abstractive Summarization. *EMNLP 2021*, pages 9391-9407, 2021.

▷ Elham Ghanbari, Azadeh Shakery. A Learning to rank framework based on cross-lingual loss function for cross-lingual information retrieval. *Applied Intelligence, published onine*, 2021.

▷ Samaneh Karimi, Azadeh Shakery, Rakesh M. Verma. Online news media website ranking using user-generated content. *Journal of Information Science* 47(3), 2021.

▷ Razieh Rahimi, Ali Montazeralghaem, Azadeh Shakery. An axiomatic approach to corpus-based cross-language information retrieval. *Information Retrieval Journal* 23(3): 191-215, 2020.

▷ Amir Vakili Tahami, Kamyar Ghajar, Azadeh Shakery. Distilling Knowledge for Fast Retrieval-based Chat-bots. *SIGIR 2020*, pages 2081-2084, 2020.

▷ Mohsen Raeesi, Masoud Asadpour, Azadeh Shakery. Swash: A Collective Personal Name Matching Framework *Expert Systems with Applications* 147: 113115, 2020.

▷ Parisa Berangi, Zahra Mousavi, Heshaam Faili, Azadeh Shakery. WordNet construction for under-resourced languages using personalized PageRank. *Digital Scholarship in the Humanities*, fqaa036, 2020.

▷ Shayan A. Tabrizi, Azadeh Shakery, Mohammad Ali Tavallaei, and Masoud Asadpour. Search Personalization Based on Social-Network-Based Interestedness Measures. *IEEE Access* 7, pages 119332-119349, 2019.

▷ Hosein Azarbonyad, Azadeh Shakery, Heshaam Faili. A learning to rank approach for cross-language information retrieval exploiting multiple translation resources. *Natural Language Engineering* 25(3), pages 363-384, 2019.

▷ Fatemeh Amiri, Nasser Yazdani, Azadeh Shakery, Shen-Shyang Ho, Bayesian-based Anonymization Framework against Background Knowledge Attack in Continuous Data Publishing. *Transactions on Data Privacy* 12(3), pages 197-225, 2019.

▷ Elham Ghanbari, Azadeh Shakery, ERR.Rank: An algorithm based on learning to rank for direct optimization of Expected Reciprocal Rank. *Applied Intelligence* 49(3), pages 1185-1199, 2019.

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▷ Ayyoob Imani, Amir Vakili, Ali Montazer, Azadeh Shakery, An Axiomatic Study of Query Terms Order in Ad-Hoc Retrieval. *ECIR 2019*, pages 196-202, 2019.

▷ Ayyoob Imani, Amir Vakili, Ali Montazer, Azadeh Shakery, Deep Neural Networks for Query Expansion Using Word Embeddings. *ECIR 2019*, pages 203-210, 2019.

▷ Erfan Ghadery, Sajad Movahedi, Masoud Jalili Sabet, Heshaam Faili, Azadeh Shakery, LICD: A Language-Independent Approach for Aspect Category Detection. *ECIR 2019* pages 575-589, 2019.

▷ Emad Kebriaei, Samaneh Karimi, Nazanin Sabri, Azadeh Shakery, Emad at SemEval-2019 Task 6: Offensive Language Identification using Traditional Machine Learning and Deep Learning approaches. *SemEval@NAACL-HLT 2019*, pages 600-603, 2019.

▷ Ida Amini, Samane Karimi, Azadeh Shakery, Cross-lingual Subjectivity Detection for Resource Lean Languages. *WASSA@NAACL-HLT 2019*, pages 81-90, 2019.

▷ Nava Ehsan, Azadeh Shakery, Frank Wm Tompa, Cross-lingual text alignment for fine-grained plagiarism detection. *Journal of Information Science*, published online, pages 1-17, 2018.

▷ Elham Ghanbari, Azadeh Shakery, Query-dependent learning to rank for cross-lingual information retrieval. *Knowledge and Information Systems*, published online, pages 1-33, 2018.

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▷ Elaheh Rahimtoroghi, Hesham Faili, Azadeh Shakery, A Structural Rule-based Stemmer for Persian, *IST 2010, 5th International Symposium on Telecommunications*, Tehran, 2010.

▷ Homa Baradaran Hashemi, Azadeh Shakery, Heshaam Faili, Creating a Persian-English Comparable Corpus, *in proceedings of Conference on Multilingual and Multimodal Information Access Evaluation (CLEF), Padua, Italy*, pp. 27-39, 2010.

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▷ Homa Baradaran Hashemi, Azadeh Shakery, Mahdi Pakdaman Naeini, Protein Fold Pattern Recognition Using Bayesian Ensemble of RBF Neural Networks, *Proceedings of 2009 International Conference of Soft Computing and Pattern Recognition*, pages 436–441, 2009.

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▷ Morteza Mohaqeqi, Reza Soltanpoor, Azadeh Shakery, Improving the Classification of Unknown Documents by Concept Graph, *Proceedings of the 14th International CSI Computer Conference*, pages 259–264, 2009.

▷ Xuanhui Wang, Bin Tan, Azadeh Shakery, ChengXiang Zhai, Beyond Hyperlinks: Organizing Information Footprints in Search Logs to Support Effective Browsing, *Proceedings of the 18th ACM International Conference on Information and Knowledge Management*, pages 1237–1246, 2009.

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▷ Mayssam Sayyadian, Azadeh Shakery, AnHai Doan, and ChengXiang Zhai, Toward Entity Retrieval over Structured and Text Data, In *Proceedings of ACM SIGIR 2004 Workshop on Information Retrieval and Databases*, 2004.

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▷Azadeh Shakery, Solmaz Kolahi, and Shahin Hessabi, FPGA Optimal Configuration Algorithm for Test, *Technical Report, Sharif University of Technology*, 2000.

Ongoing Ph.D. Theses

▷Shima Ghassemi, Cross-lingual question retrieval in community question answering, Department of ECE, College of Engineering, University of Tehran

▷Elahe Rabbani, Response retrieval in conversational systems, Department of ECE, College of Engineering, University of Tehran

▷Emad Kebriaei, Cross-lingual hate speech detection for reserouce-lean languages, Department of ECE, College of Engineering, University of Tehran

▷Parisa Bazmi, Fake new detection on social media based on cognitive bias, Department of ECE, College of Engineering, University of Tehran (Co-Adviser: Dr. Masoud Asadpour)

▷Peyman Rostami, T-shaped expert finding, Department of ECE, College of Engineering, University of Tehran

Supervised Ph.D. Thesis

▷Samaneh Karimi, News retrieval using user generated content, Department of ECE, College of Engineering, University of Tehran

▷Mohsen Raeesi, Entity resolution using heterogeneous information networks, Department of ECE, College of Engineering, University of Tehran (Co-Adviser: Dr. Masoud Asadpour)

▷Elham Ghanbari, Learning-to-Rank for cross language information retrieval, Department of ECE, College of Engineering, University of Tehran

▷Shayan AliAkbar Tabrizi, Personalized retrieval in social networks, Department of ECE, College of Engineering, University of Tehran

▷Fatemeh Amiri, Privacy-preserving data publishing, Department of ECE, College of Engineering, University of Tehran, (Co-Adviser: Dr. Nasser Yazdani)

▷Nava Ehsan, Cross language plagiarism detection, Department of ECE, College of Engineering, University of Tehran

▷Razieh Rahimi, Resource-lean cross language information retrieval, Department of ECE, College of Engineering, University of Tehran

External Services

▷Program Committee Member, The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Amsterdam, Netherlands, July 2021

▷Area Chair, Information Retrieval, Search, Question Answering, The 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL), Kyiv, Ukraine, April 2021

▷Program Committee Member, The 14th international conference on Web and data mining (WSDM), Jerusalem, Israel, March 2021

▷Program Committee Member, The 43rd European Conference on Information Retrieval (ECIR), Lucca,Tuscany, March 2021

▷Program Committee Member, The 26th computer society international computer conference (CSICC), Tehran, Iran, March 2021

▷Program Committee Member, The 11th Conference on Information and Knowledge Technology (IKT), Tehran, Iran, December 2020

▷Program Committee Member, The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), Punta Cana, Dominican Republic, November 2020

▷Program Committee Member, The 58th Annual Meeting of the Association for Computational Linguistics (ACL), Seattle, Washington, USA, July 2020

▷Program Committee Member, The 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Xi'an, China, July 2020

▷Program Committee Member, The 42nd European Conference on Information Retrieval (ECIR), Lisbon, Portugal, April 2020

▷Area Chair, Theory, The 1st National Informatics Conference of Iran (NIC), Tehran, Iran, January 2020

▷Program Committee Member, The 28th ACM International on Conference on Information and Knowledge Management (CIKM), New YorkNYUnited States, November 2019

▷Program Committee Member, The 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP), Hong Kong, China, November 2019

▷Program Committee Member, The 41st European Conference on Information Retrieval (ECIR), Cologne, Germany, April 2019

▷Program Committee Member, The 40th European Conference on Information Retrieval (ECIR), Grenoble, France, March 2018

▷Program Committee Member, The 39th European Conference on Information Retrieval (ECIR), Aberdeen, Scotland, April 2017

▷Program Committee Member, The 25th ACM International on Conference on Information and Knowledge Management (CIKM), Indianapolis Indiana USA, October 2016

▷Program Committee Member, The 38th European Conference on Information Retrieval (ECIR), Padua, Italy, March 2016

▷Program Committee Member, The 21st computer society international computer conference (CSICC), Tehran, Iran, March 2016

▷Program Committee Member, The 37th European Conference on Information Retrieval (ECIR), Vienna, Austria, March 2015

▷Publication Co-Chair, The 7th Asian Information Retrieval Societies Conference (AIRS) Dubai, United Arab Emirates, December 2011

References

Available upon request.