

# Azadeh Shakery

## Address

ECE Department, Campus #2  
Faculty of Engineering  
North Kargar Ave.  
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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**

- ▷ Shima Ghasemi, Azadeh Shakery. Harnessing the Power of Metadata for Enhanced Question Retrieval in Community Question Answering. *IEEE Access*, 12, 2024.
- ▷ Parisa Bazmi, Masoud Asadpour, Azadeh Shakery, Abbas Maazallahi. Entity-centric multi-domain transformer for improving generalization in fake news detection. *Information Processing & Management*, 61(5), 2024.
- ▷ Sajad Movahedi, Melika Adabinejad, Ayyoob Imani, Arezou Keshavarz, Mostafa Dehghani, Azadeh Shakery, Babak Nadjar Araabi. Λ-DARTS: Mitigating Performance Collapse by Harmonizing Operation Selection among Cells. *ICLR*, 2023.
- ▷ Emad Kebriaei, Ali Homayouni, Roghayeh Faraji, Armita Razavi, Azadeh Shakery, Hesham Faili, Yadollah Yaghoobzadeh. Persian offensive language detection. *Machine Learning*, 2023.
- ▷ Samaneh Karimi, Azadeh Shakery, Rakesh M. Verma. Enhancement of Twitter event detection using news streams. *Natural Language Engineering*, 29(2), 2023.
- ▷ 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 online, 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, Hesham 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, Hesham 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.
- ▷ Erfan Ghadery, Sajad Movahedi, Hesham Faili, Azadeh Shakery, MNCN: A Multilingual Ngram-Based Convolutional Network for Aspect Category Detection in Online Reviews. *AAAI 2019*, pages 6441-6448, 2019.
- ▷ 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, Hesham 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.
- ▷ Samaneh Karimi, Luis F. T. Moraes, Avisha Das, Azadeh Shakery, Rakesh M. Verma, Citance-based retrieval and summarization using IR and machine learning. *Scientometrics*, 116(2), pages 1331-1366, 2018.
- ▷ Shayan A. Tabrizi, Azadeh Shakery, Hamed Zamani, Mohammad Ali Tavalaei, PERSON: Personalized information retrieval evaluation based on citation networks. *Information Processing & Management* 54, pages 630-656, 2018.
- ▷ Hamed Zamani, Azadeh Shakery, A language model-based framework for multi-publisher content-based recommender systems. *Information Retrieval Journal*, 21(5), pages 369-409, 2018.
- ▷ Fatemeh Amiri, Nasser Yazdani, Azadeh Shakery, Bottom-up sequential anonymization in the presence of adversary knowledge. *Information Sciences* 450, pages 316-335, 2018.
- ▷ Ali Montazer-alghaem, Hamed Zamani, Azadeh Shakery, Theoretical Analysis of Interdependent Constraints in Pseudo-Relevance Feedback. *SIGIR 2018*, pages 1249-1252, 2018.
- ▷ Mahsa S. Shahshahani, Faegheh Hasibi, Hamed Zamani, Azadeh Shakery, Towards a Unified Supervised Approach for Ranking Triples of Type-Like Relations, *European Conference on Information Retrieval (ECIR 2018)*, pages 707-714, 2018.
- ▷ Nafiseh Torkzadeh Mahani, Mostafa Dehghani, Maryam S. Mirian, Azadeh Shakery, Khalil Taheri, Expert finding by the Dempster-Shafer theory for evidence combination. *Expert Systems* 35(1), 2018.
- ▷ Samaneh Karimi, Azadeh Shakery, A language-model-based approach for subjectivity detection. *Journal of Information Science* 43(3), pages 356-377, 2017.
- ▷ Javid Dadashkarimi, Azadeh Shakery, Hesham Faili, Hamed Zamani, An expectation-maximization algorithm for query translation based on pseudo-relevant documents. *Information Processing & Management* 53(2), pages 371-387, 2017.

- ▷ Javid Dadashkarimi, Mahsa S. Shahshahani, Amirhossein Tebbifakhr, Hesham Faili, Azadeh Shakery, Dimension Projection Among Languages Based on Pseudo-Relevant Documents for Query Translation. *ECIR 2017*, pages 493-499, 2017.
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- ▷ Hamed Zamani, Hesham Faili, Azadeh Shakery, Sentence alignment using local and global information. *Computer Speech & Language* 39, pages 88-107, 2016.
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- ▷ Razieh Rahimi, Azadeh Shakery, Irwin King, Extracting translations from comparable corpora for Cross-Language Information Retrieval using the language modeling framework, *Information Processing & Management*, 2015.
- ▷ Shayan A. Tabrizi, Javid Dadashkarimi, Mostafa Dehghani, Hassan Nasr Esfahani, Azadeh Shakery., Revisiting Optimal Rank Aggregation: A Dynamic Programming Approach, *In Proceedings of the 2015 International Conference on The Theory of Information Retrieval*, pp. 353-356. ACM, 2015.
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- ▷ Hamed Zamani, Pooya Moradi, Azadeh Shakery, Adaptive User Engagement Evaluation via Multi-task Learning, *In Proceedings of the 38th International ACM SIGIR Conference on Research and Development in Information Retrieval*, pp. 1011-1014. ACM, 2015.
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- ▷ Javid Dadashkarimi, Azadeh Shakery, Hesham Faili, A probabilistic translation method for dictionary-based cross-lingual information retrieval in agglutinative languages, *The 3rd conference of Computational Linguistic*, 2014.
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- ▷ Azadeh Shakery, ChengXiang Zhai, Leveraging Comparable Corpora for Cross-Lingual Information Retrieval in Resource-Less Language Pairs, *Information Retrieval Journal*, 16(1), pages 1-29, 2013.
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- ▷ Mohammadreza Darvish Morshedi Hosseini, Azadeh Shakery, Behzad Moshiri, A Web 2.0 Approach for Organizing Search Results Using Wikipedia, *Proceedings of the 7th Asian Information Retrieval Societies Conference (AIRS 2011)*, pages 215-225, 2011.
- ▷ Elahe Rahimtoroghi, Azadeh Shakery, Wikipedia-Based Smoothing for Enhancing Text Clustering, *Proceedings of the 7th Asian Information Retrieval Societies Conference (AIRS 2011)*, pages 327-339, 2011.
- ▷ Zahra Rahimi, Azadeh Shakery, Topic Based Creation of a Persian-English Comparable Corpus, *Proceedings of the 7th Asian Information Retrieval Societies Conference (AIRS 2011)*, pages 458-469, 2011.
- ▷ Fatemeh Amiri, MohammadMahdi Rezaei Yousefi, Caro Lucas, Azadeh Shakery, Nasser Yazdani, Mutual information-based feature selection for intrusion detection systems, *Journal of Network and Computer Applications*, 34(4), pages 1184-1199, 2011.
- ▷ Morteza Zi Hayat, Javad Basiri, Leila Seyedhossein, Azadeh Shakery, Content-Based Concept Drift Detection for Email Spam Filtering, *International Journal of Information and Communication Technology*, 2(3), pages 59-65, 2010.

- ▷ Nayereh Gholamzadeh, Fattaneh Taghiyareh, Azadeh Shakery, Fuzzy Clustering for Semantic Web Services Discovery Based on Ontology, *International Journal of Information and Communication Technology*, 2(3), pages 1-8, 2010.
- ▷ Javad Basiri, Azadeh Shakery, Behzad Moshiri, Morteza Zi Hayat, Addressing the New User Cold-Start Problem in Recommender Systems Using Ordered Weighted Averaging Operator, *International Journal of Information and Communication Technology*, 2(4), pages 79-87, 2010.
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- ▷ Morteza Zi Hayat, Javad Basiri, Leila Seyedhossein, Azadeh Shakery, Content-Based Concept Drift Detection for Email Spam Filtering, *IST 2010, 5th International Symposium on Telecommunications*, Tehran, 2010.
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- ▷ Homa Baradaran Hashemi, Naser Yazdani, Azadeh Shakery, Mahdi Pakdaman Naeini, Application of Ensemble Models in Web Ranking, *IST 2010, 5th International Symposium on Telecommunications*, Tehran, 2010.
- ▷ 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, Hesham 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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- ▷ 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.
- ▷ Azadeh Shakery and ChengXiang Zhai, Relevance propagation for topic distillation – UIUC 2003 Web Track Experiments, In *Proceedings of the 2003 Text REtrieval Conference (TREC 2003)*. National Institute of Standards and Technology, special publication, 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.

## External Services

- ▷ Member of the Scientific Council of the Computer Science Department, Institute for research in fundamental sciences, 2021-now
- ▷ Program Committee Member, The 44<sup>th</sup> International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Amsterdam, Netherlands, July 2021
- ▷ Area Chair, Information Retrieval, Search, Question Answering, The 16<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics (EACL), Kyiv, Ukraine, April 2021
- ▷ Program Committee Member, The 14<sup>th</sup> international conference on Web and data mining (WSDM), Jerusalem, Israel, March 2021
- ▷ Program Committee Member, The 43<sup>rd</sup> European Conference on Information Retrieval (ECIR), Lucca, Tuscany, March 2021

- ▷Program Committee Member, The 26<sup>th</sup> computer society international computer conference (CSICC), Tehran, Iran, March 2021
- ▷Program Committee Member, The 11<sup>th</sup> 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 58<sup>th</sup> Annual Meeting of the Association for Computational Linguistics (ACL), Seattle, Washington, USA, July 2020
- ▷Program Committee Member, The 43<sup>rd</sup> International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Xi'an, China, July 2020
- ▷Program Committee Member, The 42<sup>nd</sup> European Conference on Information Retrieval (ECIR), Lisbon, Portugal, April 2020
- ▷Area Chair, Theory, The 1<sup>st</sup> National Informatics Conference of Iran (NIC), Tehran, Iran, January 2020
- ▷Program Committee Member, The 28<sup>th</sup> 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 41<sup>st</sup> European Conference on Information Retrieval (ECIR), Cologne, Germany, April 2019
- ▷Program Committee Member, The 40<sup>th</sup> European Conference on Information Retrieval (ECIR), Grenoble, France, March 2018
- ▷Program Committee Member, The 39<sup>th</sup> European Conference on Information Retrieval (ECIR), Aberdeen, Scotland, April 2017
- ▷Program Committee Member, The 25<sup>th</sup> ACM International on Conference on Information and Knowledge Management (CIKM), Indianapolis Indiana USA, October 2016
- ▷Program Committee Member, The 38<sup>th</sup> European Conference on Information Retrieval (ECIR), Padua, Italy, March 2016
- ▷Program Committee Member, The 21<sup>st</sup> computer society international computer conference (CSICC), Tehran, Iran, March 2016
- ▷Program Committee Member, The 37<sup>th</sup> European Conference on Information Retrieval (ECIR), Vienna, Austria, March 2015
- ▷Publication Co-Chair, The 7<sup>th</sup> Asian Information Retrieval Societies Conference (AIRS) Dubai, United Arab Emirates, December 2011

## References

Available upon request.