



Saeed Farzi

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Address § Assistant Prof of K. N. Toosi university of Technology, AI
Department, Computer Faculty,

EDUCATION

PhD 2010 — 2016

Tehran University

Computer Science

GPA 18.7/20

University of Tehran, School of Electrical and Computer Engineering

Natural language and Text Processing Laboratory of Tehran University

PhD Thesis: A Dependency based Reordering Model for Statistical Machine Translation

Supervisor: Dr. Hesham Faili

Adviser: Dr. Shahram Khadivi

M.Sc 2004 — 2006

Isfahan University

Artificial Intelligence

GPA 18.5/20

Isfahan University, Computer Engineering Faculty, AI Department

Thesis: Data Quality Measurement using Data mining algorithms

Supervisor: Ahmad Baraani Dastjerdi

Ba 2000 — 2004

Razi university

GPA 17/20

Project: Designing and implementation of distributed database

Supervisor: Dr. Farhad Mardukhi

INTERESTS

- **Machine Learning:** AI Ethics, Fairness problem, Deep Learning, Adversarial Learning, Transfer Learning, Incremental Learning
- **Information retrieval:** Summarization, Search Engines , Query suggestion, Personalization and Depersonalization, Learning 2 rank.
- **Natural Language Processing:** Language Generation, Language understanding, Machine Translation, Dialog systems, Sentiment Analysis, Topic Modeling, Word embedding
- **Social Network Analysis:** Community Detection, Influence Maximization
- **Knowledge Graph:** Medical knowledge Graph Construction, Knowledge Graph Embedding, Knowledge

- **Database System and Block Chain**

PUBLICATION

Books:

- **[Book Chapter-international collaboration]** 2020, Saedeh Tahery, **Saeed Farzi**. Neurological Disorders and Imaging Physics, Volume 4 (Chapter 2: Application of machine learning algorithms to diagnosis attention deficit hyperactivity disorder). **IOP Publishing**, Great Britain. **International Collaboration with University of Louisville**.
- **[Book]** 2003: Linux Home Networking”, ISSN=964-06-3825-0, Tehran, Iran

Journals:

- S Tahery, S. Z. Aftabi and S Farzi, "A GA-based Algorithm meets the Fair Ranking Problem", **Information Processing and Management**, Elsevier Ltd, 2021, IF=7.4
- M Mobasher, S Farzi, “An enhanced personality detection system through user’s digital footprints”, **Digital Scholarship in the Humanities**, Oxford University Press, 2021. IF=1.29
- M Seifikar, S Farzi, M Barati, “C-blondel: An efficient Louvain-based dynamic community detection algorithm”, **IEEE Transactions on Computational Social Systems**, 2020.
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- MF Shirjini, S Farzi, A Nikanjam, “MDPCluster: a swarm-based community detection algorithm in large-scale graphs”, **Journal of Computing** Springer Ltd, 2020. IF=2.2
- S Tahery, S Farzi, “Customized query auto-completion and suggestion—A review”, **Information Systems**, Elsevier Ltd, 2020, IF=3.18
- S Tahery, S Farzi, “TIPS: Time-aware Personalized Semantic-based query auto-completion”, **Journal of Information Science**, SAGE Publications Ltd, 2020. IF=2.46
- S Kianian, S Farzi, “Assessment of Customer Credit Risk using an Adaptive Neuro-Fuzzy System”, **Computer and Knowledge Engineering**, 2020.
- S Kianian, S Farzi, H Samak, “A New Clustering Algorithm for Attributive Graphs through Information Diffusion Approaches”, **Journal of Electrical and Computer Engineering**, 2020.
- D Bidekani Bakhtiarvand, S Farzi, “An Ensemble Click Model for Web Document Ranking”, **International Journal of Engineering**, 2020.
- M Seifikar, S Farzi, “A comprehensive study of online event tracking algorithms in social networks”, **Journal of Information Science**, SAGE Publications Ltd, 2019, IF=2.46
- S Farzi, S Kianian, “Katibeh: A Persian news summarizer using the novel semi-supervised approach”, **Digital Scholarship in the Humanities**, Oxford University Press, 2019, IF=1.29
- S Farzi, S Kianian, “A novel clustering algorithm for attributed graphs based on K-medoid algorithm”, **Journal of Experimental & Theoretical Artificial**, Tylor and Francis, 2019, IF=2.3

- S Farzi, H Faili, S Kianian , “ A neural reordering model based on phrasal dependency tree for statistical machine translation” , **Intelligent Data Analysis**, IOS Press, 2018, IF=1.3
- S Farzi, and Heshaam Faili. "Improving statistical machine translation using syntax-based learning-to-rank system." **Digital Scholarship in the Humanities**, Oxford University Press, 2017,IF=1.29
- S.Farzi, Heshaam Faili, and Shahram Khadivi. " A syntactically informed reordering model for statistical machine translation." **Journal of Experimental & Theoretical Artificial Intelligence** Tylor and Francis, 2017, IF=2.3
- S.Farzi, and Heshaam Faili. " A swarm-inspired re-ranker system for statistical machine translation. " **Computer Speech & Language** Elsevier Ltd, 2017, IF=3.25
- S.Farzi., Faili, H., Khadivi, S., & Maleki, J.. A Novel Reordering Model for Statistical Machine Translation . **Research in Computing Science**, 2013
- S.Farzi,Alireza Rayati Shavazi,Abbas Pandari: “Using quantum-behaved particle swarm optimization for portfolio selection problem”.**Int. A. J. Inf. Technol.** 2013
- S.Farzi, “Training of fuzzy neural networks via quantum-behaved particle swarm optimization and rival penalized competitive learning” **Int. A. J. Inf. Technol.** ,2012.
- S.Farzi, A Baraani Dastjerdi,”Leaf constrained minimal spanning trees solved by modified quantum-behaved particle swarm optimization ”,**Artificial Intelligence Review journal** , 2010.
- S.Farzi,” The design of self-organizing evolved Polynomial Neural Networks based on Learnable Evolution Model 3”,**The International Journal of Information Technology**, 2010.
- S.Farzi,” Data Quality Measurement using Data Mining ”,**International Journal of Computer Theory andEngineering**, 2010.
- S.Farzi ,“The design of self-organizing evolved Polynomial Neural Networks based on Genetic Algorithm ”,**International Journal of Intelligent Systems and Technologies** 2008.
- S.Farzi,“ Efficient Job Scheduling in Grid Computing with Modified Artificial Fish Swarm Algorithm ” , **International Journal of Computer Theory and Engineering** 2009.

Conferences:

- A Esmaili, S Farzi, “Effective synthetic data generation for fake user detection”**26th International Computer Conference**, Computer Society of Iran, Tehran, 2021.
- **[Best Paper]** DB Bakhtiarvand, S Farzi , “A hybrid click model for web search",**2019 5th Iranian Conference on SignalProcessing and Intelligent Systems**, 2019
- SD Mahmoodabad, S Farzi, DB Bakhtiarvand , “Persian rumor detection on twitter”,**2018 9th International Symposium on Telecommunications (IST)**, 597-602 , 2018
- M Seifikar, S Farzi, SD Mahmoodabad , “Kermanshah Earthquake Event Tracking Through Persian Tweets” , **2018 9th International Symposium on Telecommunications (IST)**, 597-602, 2018
- S Farzi, S Kianian, I Rastkhadive , “ Predicting serious diabetic complications using hidden pattern detection”- **IEEE 4th International Conference on Knowledge-Based Engineering and Innovation (KBEI)**, 2017
- B Balegh, S Farzi , "Community detection in social networks using a novel algorithm without parameter"

2017IEEE 4th International Conference on Knowledge-Based Engineering and Innovation (KBEI) 2017

- S Farzi, and Heshaam Faili. "TPC: An Automatically Generated Comprehensive English-Persian Parallel Corpus.", **Computational and Business Intelligence (ISCBI),5th International Symposium**, UAE, 2017.
- S Farzi, Sahar Kianian, and Ilnaz Rastkhadive. "Diagnosis of Attention Deficit Hyperactivity Disorder Using Deep Belief Network Based on Greedy Approach.", **Computational and Business Intelligence (ISCBI), 2017 5th International Symposium**, UAE, 2017.
- S Farziand Sahar Kianian, "Persian Summarization using Semi-supervised approach",**ICEE2017**, 2017,Tehran, Iran.
- Saba Gholami, S Farzi, "Breast Cancer Detection using Deep Learning",**4th National conference onInformation Technology, Computer and Telecommunication**, 2017 (In Persian)
- Samira Rahimi, S Farzi, "Deep Learning for ADHD",**4 th National conference on Information Technology, Computer and Telecommunication**, 2017 (In Persian).
- S Farzi, H.Faili,S.Khadivi, "A Syntactically-Informed Reordering Model for Statistical Machine Translation using Phrasal Dependency Trees", **MICALL** 2013.
- A.Baraani, S.Farzi, "Data Quality Measurement by Data mining techniques ",**11'th International CSI ComputerConference ,School of computer science**, IPM , Jan 24-26 2006, Tehran, Iran.[farsi]
- A.R. Poriyan, S. Farzi, "A survey of Grid Computing in context of Security issues ",**the WSEAS transactions (Covered by EI,SCOPUS,IEE) among the best papers of conference**, 2008, Greece.
- S. Farzi ,” A new approach to Polynomial Neural Networks based on Genetic algorithm”,**2nd International Symposium on Intelligent Distributed Computing - IDC'2008** , 2008, Catania, Italy.
- S. Farzi ,” Genetic Polynomial Neural Networks”, 2008 International Symposium on Applied Computing and Computational Sciences (ACCS2008), August 1-3, Hong Kong,2008.

WORKSHOPS

- **S Farzi**, H Faili, "Workshop: Statistical Machine Translation", 3rd National Computational linguistic Conferences, Sharif university, Tehran, Iran, 2014.
- **S Farzi**, H Faili, , "Workshop: machine translation, Past, Present and Future", ITRC, Tehran, Iran,2013

HONORS

- **The best Young Researcher Award of K. N. T. U, 2020**
- The best Researcher of Kermanshah Award 2013
- The best Researcher of Kermanshah Award 2008
- Academic second rank in computer engineering (Razi University, 2004)
- Academic second rank in computer engineering (Isfahan University, 2006)

REVIEWED JOURNALS

- IEEE Transactions on Cybernetics
- IEEE Transactions on Neural Networks and Learning Systems
- IEEE ACCESS
- Journal of Experimental & Theoretical Artificial Intelligence
- Journal of Supercomputing (SUPE)
- Journal of Information Science
- Int. J. of Information Technology and Decision Making
- Digital Scholarship In Humanities

SUPERVISION

PhD

- Saedeh Tahery, “End 2 End Neural Dialog System”, K. N. T. U., [Ongoing],
- Seyede Zahra Aftabi, “Medical Question Answering Systems”, K. N. T. U., [Ongoing],

Master

- Arefeh Esmaili, “An algorithm for source of fake posts detection in social networks using nodes embedding”, K. N. T. U., [Submitted].
- Saedeh Tahery, “Personalizing Query Auto-Completion system using a re-ranker”, K. N. T. U., [Submitted],
- Danial Bidekani, “Introducing a click model using user footprints”, K. N. T. U., [Submitted].
- Hamed Samak, “A New Clustering Algorithm for Attributive Graphs through Information Diffusion Approaches”, K. N. T. U., [Submitted],
- Mahsa Seifikar, “An Improvement of Trend Detection Algorithm in Social Networks Using Graph-based Approach”, K. N. T. U., [Submitted]
- Seyed Faridoddin Kiaei, “Designing and implementing an Emotions Analytic System (EAS) on Instagram social network data”, K. N. T. U., [Submitted],
- Mohammad Mobasher, “Personality detection using user-generated multilingual content in social networks”, K. N. T. U., [Submitted]
- Amir Hosein Baqinejad, “Temporal Knowledge Graph Embedding with Concentrating on Context Information”, K. N. T. U., [Ongoing]
- Mahdi Dehghani, “Diversifying Personalized Query Auto Completion system using query topics”, K. N. T. U., [Ongoing]
- Taha Ghasemi, “A Smart Abusive Behaviors Reporting System in Social Networks Based On Blockchain”, K. N. T. U., [Ongoing]

for more details please see <https://trlab.ir/people.php>

PROJECTS

- Developing a Persian News Analysis system on social media. Fund from Islamic Republic news Agency, Iran
- Developing a Persian News Summarizing System. Fund from K. N. Toosi university of Technology, Iran

- Developing a Fraud Detection system for Bank Mellat (Banking Industries). Fund from Hesabresi Organization, Iran

ACADEMIC EXPERIENCES

- Head of AI Department of K. N. Toosi university of technology **2018-present**
- Assistant professor of K. N. Toosi university of technology, **2014 – present**
- Head of Text Retrieval Lab of K. N. Toosi university of technology **2017-present**
- Dean of IT center of K. N. Toosi university of Technology **2017-2018**
- Head of software Engineering Department, Azad university of Kermanshah **2008-2010**

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C# , C++, C, SQL, SPARQL.
- **Packages, Libraries and Tools:** MOSSES, SIRLM, PyTorch, TensorFlow, Gephi, Matlab, Weka, Clementin , Sql Server, MySQL, MongoDB, Cassandra, HBase, Visual Paradigm, Visio. NetworkX, GraphStream.

REFERENCES

- **Dr. Heshaam Faili**, Associate Professor , College of Engineering / School of Electrical and Computer Engineering, Tehran University, Iran, Email: hfaili@ut.ac.ir.
- **Dr. Shahram Khadivi**, Title Director of Applied Research/Principal Research Scientist , eBay Inc., Germany, Email: khadivi@gmail.com.
- **Dr. Mohammad Teshnelab**, Full Professor, K. N. Toosi University of Technology Electrical Eng. Faculty, Iran, Email: teshnehlab@eetd.kntu.ac.ir.
- **Dr. Amin Nikanjam**, Researcher, Université de Montréal, Canada, Email: amin.nikanjam@gmail.com .
- **Dr. Masoud Barati**, School of Computer Science and Informatics, Cardiff university, Great Britain, Email: baratim@cardiff.ac.uk