Mohammad Alian Nejadi

Education

2015-present Doctor of Philosophy, Università della Svizzera italiana, Lugano, Switzerland,

Adviser: Fabio Crestani.

Project: Relevance Criteria Combination for Mobile Information Retrieval (RelMobIR)

2011-2014 Master of Science, Amirkabir University of Technology (Tehran Polytechnic),

Tehran, Iran.

Major: Computer Engineering, Minor: Artificial Intelligence

2006-2011 Bachelor of Science, Hamedan University of Technology, Hamedan, Iran.

Major: Computer Engineering, Minor: Hardware

Research Interests

Information Retrieval and Text Mining

Recommender Systems

Natural Language Processing

Data Mining and Machine Learning

Research Visits

2018-present Visiting Scholar, Center for Intelligent Information Retrieval (CIIR), University of Massachusetts Amherst, MA, USA (Duration: October 01 2018 – February 01 2019), Adviser: W. Bruce Croft

2018 Visiting Researcher, University of Udine, Italy (Duration: February 21 – 23 2018), Collaborator: Stefano Mizzaro

2017 Visiting Researcher, Institut de Recherche en Informatique de Toulouse (IRIT), France (Duration: July 07 - 15 2017), Collaborator: Josiane Mothe

Publications

- 2018 In Situ and Context-Aware Target Apps Selection for Unified Mobile Search, M. Aliannejadi, H. Zamani, F. Crestani, and W. B. Croft, International Conference on Information and Knowledge Management (CIKM), 2018, Turin, Italy.
- 2018 A Collaborative Ranking Model with Multiple Location-based Similarities for Venue Suggestion, M. Aliannejadi, D. Rafailidis, and F. Crestani, International Conference on the Theory of Information Retrieval (ICTIR), 2018, Tianjin, China.

- 2018 Personalized Context-Aware Point of Interest Recommendation, $\underline{M.\ Aliannejadi}$ and $F.\ Crestani$, ACM Transactions on Information Systems (TOIS).
- 2018 Target Apps Selection: Towards a Unified Search Framework for Mobile Devices, M. Aliannejadi, H. Zamani, F. Crestani, and W. B. Croft, International Conference on Research and Development in Information Retrieval (SIGIR), 2018, Ann Arbor, Michigan, USA.
- 2018 Venue Suggestion Using Social-Centric Scores, M. Aliannejadi and F. Crestani, Workshop on Social Aspects in Personalization and Search (SoAPS) at ECIR'18, Grenoble, France.
- 2017 A Cross-Platform Collection for Contextual Suggestion, <u>M. Aliannejadi</u>, I. Mele, and F. Crestani, International Conference on Research and Development in Information Retrieval (SIGIR) 2017, Tokyo, Japan.
- 2017 Venue Appropriateness Prediction for Personalized Context-Aware Venue Suggestion, <u>M. Aliannejadi</u> and F. Crestani, International Conference on Research and Development in Information Retrieval (SIGIR), 2017, Tokyo, Japan.
- 2017 Personalized Keyword Boosting for Venue Suggestion based on Multiple LBSNs, M. Aliannejadi, D. Rafailidis, and F. Crestani, European Conference on Information Retrieval (ECIR), 2017, Aberdeen, Scotland.
- 2017 Personalized Ranking for Context-Aware Venue Suggestion, M. Aliannejadi, I. Mele, and F. Crestani, ACM Symposium on Applied Computing (SAC), 2017, Marrakesh, Morocco.
- 2016 Venue Appropriateness Prediction for Contextual Suggestion, <u>M. Aliannejadi</u>, I. Mele, F. Crestani, Text REtrieval Conference (TREC), 2016, Gaithersburg, Maryland, USA.
- 2016 **User Model Enrichment for Venue Recommendation**, *M. Aliannejadi, I. Mele and F. Crestani*, Asia Information Retrieval Societies Conference (AIRS), 2016, Beijing, China.
- 2015 University of Lugano at TREC 2015: Contextual Suggestion and Temporal Summarization Tracks, M. Aliannejadi, SA. Bahrainian, A. Giachanou, F. Crestani, Text REtrieval Conference (TREC), 2015, Gaithersburg, Maryland, USA.
- 2014 Graph-Based Semi-Supervised Conditional Random Fields For Spoken Language Understanding Using Unaligned Data, M. Aliannejadi, M. Kiaeeha, S. Khadivi and S. Shiry Ghidary, Australasian Language Technology Workshop (ALTW), 2014, Melbourne, Australia.
- 2014 Improved Churn Prediction In Telecommunication Industry Using Data Mining Techniques, A. Keramati, R. Jafari-Marandia, M. Aliannejadi, I. Ahmadian, M. Mozaffarian and U. Abbasi, Elsevier Journal on Applied Soft Computing.
- 2013 Discriminative Spoken Language Understanding Using Statistical Machine Translation Alignment Methods, <u>M. Aliannejadi</u>, S. Khadivi, S. Shiry Ghidary, and M.H. Bokaei, International Symposium on Artificial Intelligence and Signal Processing (AISP), 2013, Tehran, Iran.

Honors

- 2016 Ranked first in the Contextual Suggestion Track, TREC 2016
- 2015 Ranked first in the Contextual Suggestion Track, TREC 2015

Academic Services

Peer Review

- 2018 PC Member.
 - o SIGIR 2018
- 2018 Journal Reviewer.
 - ACM Transcations on Information Systems (TOIS)
 - Elsevier Information Processing and Management (IP&M)

2015-present **External Reviewer**.

- o ICTIR 2017, 2018
- o ICADL 2017, 2018
- o CIKM 2017
- o ECIR 2016
- o KDD 2015

Organization

- 2018-2019 **Local Organizer**, *The 10th CLEF Conference and Labs of the Evaluation Forum*, Università della Svizzera italiana (USI), Lugano, Switzerland.
- 2017-present ACM SIGIR Student Liaison, Representing Europe and Africa.
 - 2017 **Publicity Chair**, *The 8th Italian Information Retrieval Workshop (IIR)*, Università della Svizzera italiana (USI), Lugano, Switzerland.
 - 2015 **Co-Organizer**, *DBTA Workshop on Life Logging and Long-Term Digital Preservation*, Università della Svizzera italiana (USI), Lugano, Switzerland.

Experience

Teaching

2015-present **Teaching Assistant**, *Università della Svizzera italiana*, Lugano, Switzerland.

Teaching assistant for the following courses:

- Information Retrieval
- Databases
- User Experience Design
- Human-Computer Interaction Atelier

2010-2012 **Teaching Assistant**, Hamedan University of Technology, Hamedan, Iran.

Teaching assistant for the following courses:

- Advanced Programming: C++ Language
- Data Structures
- \circ Introduction to Algorithms
- Introduction to Formal Languages and Automata

Professional

2014-2015 .NET Developer, Batis Idea Processors Ltd., Tehran, Iran.

Developed C# .NET component for sending and receiving email and fax, which was a part of a big project.

2009-2012 **Software Designer and Developer**, *Hushmandsazan Bisim Gharb*, Hamedan, Iran. Working with a team of Electrical Engineers, I did all the software design and development process to get a large Windows application integrated with the hardware designed for it.

Master Thesis

Title Language Understanding Using Semi-labeled Corpora in Robotics Applications

Advisers Saeed Shiry Gheidary, Shahram Khadivi

Description The project follows completed research on spoken/formal language understanding using different machine learning approaches. I utilized graph-based semi-supervised conditional random fields (CRF) to train a spoken language understanding system using only 10% of the labeled data and improve the performance of the baseline models by the use of the unlabeled data.

Languages

Persian Native

English Fluent

Italian Intermediate

Programming Skills

Tools

Pandas, Seaborn, NLTK, Terrier, Lucene, CRFSuite, CRF++, Junto, AT&T FSM

Languages

Expert Python, C, C++, C#

Intermediate MATLAB, Java, PHP, MySQL, SQL Server

Basic UML, HTML, Java, Javascript, Objective-C, Shell Script

Other Activities

2017-present Occasional photographer and sports journalist.

2015 Co-organizer of USI Board Games Events series, Università della Svizzera italiana (USI), Lugano, Switzerland

2009-2011 Chair of HUT Association of Film and Music, Hamedan University of Technology, Hamedan, Iran

2006-2009 Chair of HUT Students Association, Hamedan University of Technology, Hamedan, Iran

References

Available upon request.