



***S. Mojtaba Sabbagh-Jafari***

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**PERSONAL DATA**

Last name: Sabbagh-Jafari      First name: Seyed Mojtaba (Call me Mojtaba)

Date of birth: September 10, 1976

Marital status: married

Country of citizenship: Iran

Address: No 18, Danesh-14<sup>th</sup> St. Rafsanjan, Iran, 7717766405

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**RESEARCH INTERESTS**

Artificial Intelligence

Natural Language Processing

Clinical Language Processing

Machine Learning

Machine Translation

Software Engineering

**ACADEMIC BACKGROUND**

2012 – Now      Assistant Professor, Department of Computer Engineering, Vali-e-Asr University of Rafsanjan.

2008- 2012      Ph. D student The University of Sydney  
Title of thesis: Text Mining in Clinical Notes.  
Supervisor: Prof. Jon Patrick  
Advisors: Dr. James Curran  
Courses:

Research Method

Natural Language Processing

1999-2002      M.Sc. (Machine Intelligence and Robotics), Shiraz University; Shiraz, Iran.  
Average: 17.05 of 20  
Title of thesis: Phoneme to Text Transcription with Natural Language Models.  
Supervisor: Dr. Dastghebi Fard  
Advisors: Dr. Towhidi & Dr. Sadraldini

#### Courses:

Fuzzy systems, Artificial Neural Network, Statistical Pattern Recognition, Robotics, Digital Signal Processing, Machine Learning, Digital Image Processing, Expert Systems.

1994-1999 B.Sc. (Software Engineering), Iran University of Scientist and Technology; Tehran, Iran.

Project: Design and Implementation of Minimum OS Core in Pentium Protected Mode Processor.

Supervisor: Dr. M. Sharifi.

Average: 14.79 of 20

#### Employment History

Nov 2012 – Now: Faculty member in Rafsanjan Vali-asr University

Mar 2012- Oct 2012

Chief Technology Officer (CTO) in [Small World](#) co. Full time Software Engineer and Developer. (Melbourne)

2009-Mar 2012:

As Programmer and Developer in Small World Company, Sydney, Part time job

2009-2011 Database Tutor in School of IT, The University of Sydney

2002-2008 Lecturers in Vali-e-Asr University; Rafsanjan, Iran.

2000-2002 As Software Engineer in [Sina Bank](#), Tehran, Iran

#### Academic Experiences

2012 – Now Lecturer in Computer Eng. Department, Rafsanjan Vali-e-Asr University of Rafsanjan.

2002-2008

Lecturer in Computer Science Department Rafsanjan Vali-Asr University. I have experiences in teaching following courses:

Fundamental of Computer and Programming, Advanced Programming, Data Structure and Algorithms, Analysis and Design of Algorithms, Language and Machine, Compiler, Computation Theory, Artificial Intelligence, Database Systems, Computer Networks in Vali-e-Asr University; Rafsanjan, Iran.

2017-Now Director of Information Technology Affairs in Vali-e-Asr University; Rafsanjan, Iran.

2013 -2017 Head of Computer Eng. Department Vali-e-Asr University; Ransanjan Iran.

2004-2008 Head of Computer Science Dep. in Vali-e-Asr University; Rafsanjan, Iran.

2003-2005 Director of IT Office in Vali-e-Asr University; Rafsanjan, Iran.

## PUBLICATION

### *In English:*

- Parya Razmdideh, Seyed Mojtaba Sabbagh-Jafari, "A Useful Method to Enlarge Dictionaries at Persian to English Apertium Machine Translation System" in *Applied Research in Computational Linguistics*, Shiraz ISC Center, 2019
- 2019 Parya Razmdideh, Abbas Ali Ahangar, Seyed Mojtaba Sabbagh-Jafari, Gholamreza Haffari "An Efficient Method to Add Chunker Rules in Persian to English Rule-based Apertium Machine Translation System" in *Translation Studies*, Volume 17, Number 65 Spring 2019 (Journal Paper)
- Parya Razmdideh, Abbas Ali Ahangar, Seyed Mojtaba Sabbagh-Jafari, "Translation of Clefting Construction in Persian To English Apertium System" in *Applied Research in Computational Linguistics*, Shiraz ISC Center, 2018
- 2018 Parya Razmdideh, Seyed Mojtaba Sabbagh-Jafari, "Enlarging Dictionaries and Adding Chunker Rules in Persian to English Apertium System" in *ICIL-8, Armania, Yerevan 2018*
- Parya Razmdideh, Abbas Ali Ahangar, Seyed Mojtaba Sabbagh-Jafari and Gholamreza Haffari, "Persian to English Translation Problems of Topicalization Process in Apertium Platform", in *Translation Studies*, Volume 15, Number 58, Summer 2017 (Journal Paper)
- 2017 Mojtaba, Sabbagh-Jafari, F Ziaaddini, "Optimization of software cost estimation using harmony search algorithm" in 1st Conference on Swarm Intelligence and Evolutionary Computation (CSIEC), Bam, 2016
- 2016 Jon Patrick and Mojtaba Sabbagh, "An Active Learning Process for Extraction and Standardisation of Medical Measurements by a Trainable FSA," in *Computational Linguistics and Intelligent Text Processing* (presented at the CICLing 2011, Tokyo-Japan: Springer Berlin / Heidelberg, 2011), 151-162
- 2011 Jon Patrick, Mojtaba Sabbagh and et al., "Spelling correction in Clinical Notes with Emphasis on First Suggestion Accuracy," in *2nd Workshop on Building and Evaluating Resources for Biomedical Text Mining Tuesday, 18 th March 2010* (Malta: BioTxtM 2010, 2010), 2-8.
- 2010 Zahra Garkani-Nejad , Mojtaba Sabbagh-Jafari, PREDICTION OF GAS CHROMATOGRAPHIC RETENTION INDICES OF A DIVERSE SET OF TOXICOLOGICALLY RELEVANT COMPOUNDS. A GA-MLR-ANN APPROACH (An Optimization Chemical Problem Solved by GA) Presented in ICSTIE 2006 UiTM Penang, Malaysia
- 2006

### *In Persian:*

- Sabbagh-Jafari Seyed Mojtaba, Ramezani Sajad, "**Refining Low Quality Parallel Copra for Improving the Performance of Neural Machine Translation by Sentence Level Bleu**", *The 1st National Interdisciplinary Conference on Iranian Studies, Linguistics and Translation Studies*, 17 Feb 2020, Iran
- 2020 Sabbagh-Jafari Seyed Mojtaba, Isai Ali, "**Design and Implementation of Persian to Arabic Translator using Deep Learning**", *The 1st National Interdisciplinary Conference on Iranian Studies, Linguistics and Translation Studies*, 17 Feb 2020, Iran
- Seyed Mojtaba Sabbagh-Jafari, Razmdideh Parya, Azim Mohamadkhani, **Reviewing the most important machine translation networks and comparing their performance in English to Farsi translation**, *The 2nd National Conference on Applied Research in Computational Linguistics (with Emphasis on Persian Script and Language)*, 2019, Shiraz, Iran
- 2019

- Zahra Mozaffari, giti Taki, Mojtaba Sabbagh Jaffari and Pakzad Yusefian, "Preposition sense disambiguation in Persian using semantic frames", *Language Research*, 9(1), pp. 99-117. doi: 10.22059/jolr.2018.66652, 2018, (Journal Paper)
- 2018 Najmeh Pakkish, Mojtaba Sabbagh-Jafari, "Improving Coefficient of COCOMO Software Effort Estimation Using BBO" in 3<sup>rd</sup> Conference on Swarm Intelligence and Evolutionary Computation (CSIEC), Bam, 2018
- 2017 Negin Arian, Mojtaba Sabbagh-Jafari, "Supervised Semantic Role Tagging in Persian Sentences" in CSICC 2017, Sharif University, Tehran
- M. Sabbagh, E. Jahani, and F. Zarei, "Stemming Algorithm for Persian Words," in International Conference on Information Technology Management, Communication and Computer, 2014.
- E. Jahani, M. Sabbagh and S. Ghasemi, "An Algorithm for Morphological Analysis of Farsi Words" in the 3rd Conference on Computational Linguistic, Sharif University, Tehran, Iran Nov 2014.
- 2014 M. Sabbagh, M. Abbas-Nezhad, and E. Jahani, "A Multi-Stemming Algorithm for Persian Words," in The 3rd Conference on Computational Linguistic, Sharif University, Tehran, Iran Nov 2014.
- S. Ghasemi, M. Sabbagh, and E. Jahani, "POS Tagging of Farsi Words using Statistical Models" in The 3rd Conference on Computational Linguistic, Sharif University, Tehran, Iran Nov 2014.
- 2002 Phoneme to Text Transcription with Natural Language Models Mojtaba Sabbagh Jafari, Gholamreza Dastghebi Fard Presented in 9<sup>th</sup> ICEE Conference, June 2002, Tabriz, Iran

## BOOKS

*Soltani, M. Sabbagh-Jafari M. (2017) Programming in Python. Tehran: Nasleroshan*

*Soltani, M. Sabbagh-Jafari M. (2021) Advanced Programming in Python. Tehran: Nasleroshan*

## Translated Books

*Sabbagh-Jafari M. Hemati Moghadam I. Mahmood Abadi Ali. Shahrivar Sharokh. Ghahri H. (2019) System Analysis & Design an Object Oriented Approach With UML: Alan Dennis et. al, Wiley*

Sabbagh-Jafari M. Razmdideh P. (2021) "Neural Machine Translation": Philipp Koehn, Cambridge University Press, (On press)

## PhD Students

Parya Razmdide, Student of General Linguistics, Sistan-Baluchestan University, Thesis Title: Rule-based and Hybrid Machine Translation from Farsi to English Second supervisor

Zahra Mozaffari, Student of General Linguistics, Sistan-Baluchestan University, Thesis Title: Preposition sense disambiguation in Persian using semantic frames Second supervisor

**Master Students (some of them):**

Sajad Ramezani, **Bilingual Corpora Filtering**, Graduated in Feb 2021

Fatemeh Naghdi, **Persian Language Generation and Modeling using**

**Deep learning**, Graduated in Feb 2021

Ali Isai, **Design and Implementation of Persian to Arabic Translator using**

**Deep learning**, Graduated in Sep 2020

Negin Arian, **Semantic Tagging Sentences in Farsi**, Graduated in Oct 2016.

Hassan Mohagheghyan, **Comparison of Persian Syntactic Dependency**

**Parsers**, Graduated in November 2015.

**Design and implementation of a parser for limited Persian language**

**Sentences**, Graduated in September 2015.

**Design and implementation of Algorithm for Chunking of Persian Language**

**Sentences**, Graduated in September 2015.

**PATENT      ONLINE EDUCATION SOFTWARE**

United State Patent

Patent No: US 8,112,497 B1

Patent Date: Feb. 7 2012

Inventors: Kanella Gougousis

Michelle McNamara

Seyed Mojtaba Sabbagh-Jafari

**SKILLS**

- (a) Good experience in design and implementation of LAN and configuring devices like router and switch (CCNA)
- (b) Programming Languages: Python, Php, JavaScript, node.js, C++, HTML, CCS
- (c) MySQL, Postgres, mongoDB Database.