

FARHAD OROUMCHIAN

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EDUCATION: Ph.D. School of Computer & Information Science, Syracuse University. 1995
M.S. Computer Science, Sharif University of Technology, Tehran, Iran. 1987
BS Computer Science, National University of Iran, Tehran, Iran. 1984

AREAS of

INTEREST: Information Retrieval, Data Mining, Question Answering, Artificial Intelligence, Software Engineering, Databases.

CURRENT POSITION: Associate Professor,
University of Wollongong (Dubai campus), Aug. 2003-present.

PREVIOUS POSITIONS:

Acting Chair of College of IT, University of Wollongong in Dubai, May 2005-December 2005.

Chair of Software Engineering Program, Electrical & Computer Engineering group, Faculty of Engineering, University of Tehran, Sept. 2002-July 2003.

Director of Information & Informatics Center, Faculty of Engineering, University of Tehran, July 2002-July 2003.

Assistant Professor of Faculty of Engineering in University of Tehran, Sept. 1999-Aug 2003.

Senior Research Engineer at TextWise LLC of Syracuse New York, April 1996- April 1999.

TITLE OF DESSERTATION: An Application of Plausible Reasoning to Information Retrieval

HONORARY DISTINCTIONS

Higher Education Opportunity Program Award for Excellent Contribution, May 5,1994

In recognition of my work with students in University College of Syracuse University during 4 years of my service there. This award was presented to me by one of the New York State US Senators during the ceremony.

SIAM Data Mining Competition 2007, Third Place

A team of two students working with me was able to achieve the Third Place in Classification Contest that was in conjunction with SIAM SDM 2007, April 26-28, 2007.

ROBOCUP

Third Place in German Open April 2004, with team TRU-UOWD from University of Wollongong (Dubai Campus)

Third Place in American Open 2003, with team Thunder from University of Tehran

I have been involved with Robocup competitions (Soccer & Rescue Simulation) from 2002 to 2005 and two of my teams have won international recognition.

GRANT:

Farsi Lexicon and Corpora for speech to speech translation, part of LC-star project (www.lc-star.org) Nokia, 25000 Euro, Nov. 2008 to Dec. 2009.

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Platform and Interface for programming MyRo Robots for Novice, small grant 10000AED from UOWD, 2009.

Intrusion Detection by Data Mining and Information Theory, small grant 10000AED from UOWD, 2009.

A research and development contract from a US-based company to develop an Email Categorizer and Information Extraction unit for Customer Relationship Management software. Feb. –Dec. 2004.

I have received two small grants from University of Tehran between 2001 and 2003, for two projects “**Filtering Documents by Plausible Inferences**” and “**Intelligent Tutoring System**”.

Applied for an URC grant in Australia for 2006 titled: “**A Relation Extraction Toolkit for a Question Answering System**”.

Applied for Microsoft Research grant 2006 titled:” **Get Answer: Question Answering By Plausible Reasoning on the web**”.

MAJOR RESEARCH PROJECTS:

My main research is in AI and Reasoning and its application in other fields. For example Fuzzy logic inference based system for Robocup simulations or Plausible Inference based retrieval system PLIR. Reasoning based question answering. Another example is combining database retrieval and text retrieval by using reasoning. Besides reasoning, I am interested in Information Retrieval and applied Natural Language processing. Another application is automatically converting legacy systems and database code to new object oriented and relational database code.

I have participated in INEX2004, INEX2006 with my Artificial Intelligence based system PLIR. INEX stands for “INitiative for Evaluation of XML Documents”. It is an international initiative and TREC like experiments that about 70+ universities from around the world participate in it. The goal of this initiative is to improve the quality of XML document retrieval. It is sponsored by DELOS Network of Excellence for Digital Libraries and IEEE Computer Society. (<http://inex.is.informatik.uni-duisburg.de/>)

Persian Information Retrieval; I have investigated hundreds of possible configurations with many different models for searching Persian text and established the parameters for building a Persian search engine.

Persian Natural Language Processing; I have investigated a dozen different statistical part of speech tagging methods for Persian text. Currently I am working on corpus based stemming, mostly experimenting with Machine Learning approaches.

Hamshahri and Qavanin Test Collections: with the help of my students, I have developed two test corpora for Persian text retrieval experiments. The largest Hamshahri has over 160000+ docs and 60 queries and smaller has 170000 short documents and 40 queries.

POS Test Collection: with the help of my students, I have developed a special collection with 2 million tagged words for experiments with part of speech tagging of Persian text.

PUBLICATIONS:

Journals, Book Chapters & Conferences: 77

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REFERENCED:

My work has been referenced 120 times till Aug. 2008.

REFEREE:

I have been referee of national journals in Iran and national and international conferences such as COLING2004, INEX2004, SIGIR2006, CIKM2006 to name a few.

The Second International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2009)(London MetropolitanUNiversity)

ICMSAO09

EXPERIENCE

I have both industry experience in Software Engineering, System Development and IT Project Management, and academic experience teaching and research.

I have been Chair and Acting Chair of department, Director of IT, Chair of Library Committee and member of Research, Education and library committees.

I have experience in developing new degrees and accreditation of degrees.

I have been supervisor and co-supervisor of many 14 MS. and PhD students.

MEMBERSHIP:

I am a member of **ACM and IEEE** and I am listed in **International Who's Who**.

I am a member of Database group and also a member of Center of Excellence for Control and Intelligent Processing of Faculty of Engineering, University of Tehran.

PUBLICATIONS:

Submitted Journals:

Title	Journal Name	Date of Submission
Intelligent Tutoring: A reasoning based approach	International Journal on Artificial Intelligence Tools	May 2007
Experiments with Rich Document Representation and Clustering	International Journal on Artificial Intelligence Tools	April 2007
Persian Retrieval Using Language Modeling	Information Processing Letters	March 2007
S. Sahebi , R. Khosravi, and F. Oroumchian, "A Hybrid Recommendation System Leveraging Site Usage, Content, and Structure."	Under review in ACM Transactions on the Web (TWeb) journal, special issue on recommendation systems	2008

Published Journals & Books

[17] Hadi Amiri, Abolfazl AleAhmad, Masoud Rahgozar, Farhad Oroumchian, "Hamshahri: A Standard Persian Text Collection", **Knowledge-Based Systems**, 22 (2009), pp. 382-387. (ISSN: 0950-7051) (ISI Listed)

[16] Zahra Aghazade, Nazanin Dehghani, Leili Farzinvasht, Razieh Rahimi, Abolfazel AleAhmad, Hadi Amiri, Farhad Oroumchian, Fusion of Retrieval Models at CLEF 2008 Ad-Hoc Persian Track, **Advances in Multilingual and Multimodal Information Retrieval**, 9th Workshop of the Cross-Language Evaluation Forum, CLEF 2008, Revised Selected Papers, Series: [Lecture Notes in Computer Science](#), ed. Peters, C.; Jijkoun, V.; Mandl, Th.; Müller, H.; Oard, D.W.; Peñas, A.; Petras, V.; Santos, D. (to be published 2009)

[15] Reza Karimpour, Amineh Ghorbani, Azadeh Pishdad, Mitra Mormati, Abolfazel AleAhmad, Hadi Amiri, Farhad Oroumchian, Using Part of Speech Tagging In Persian Information Retrieval, **Advances in Multilingual and Multimodal Information Retrieval**, 9th Workshop of the Cross-Language Evaluation Forum, CLEF 2008, Revised Selected Papers, Series: [Lecture Notes in Computer Science](#) ed. Peters, C.; Jijkoun, V.; Mandl, Th.; Müller, H.; Oard, D.W.; Peñas, A.; Petras, V.; Santos, D. (to be published 2009)

[14] Abolfazl AleAhmad, Ehsan Kamaloo, Arash Zareh, Masoud Rahgozar, Farhad Oroumchian, Cross Language Experiments at Persian@CLEF 2008, **Advances in Multilingual and Multimodal Information Retrieval**, 9th Workshop of the Cross-Language Evaluation Forum, CLEF 2008, Revised Selected Papers, Series: [Lecture Notes in Computer Science](#) ed. Peters, C.; Jijkoun, V.; Mandl, Th.; Müller, H.; Oard, D.W.; Peñas, A.; Petras, V.; Santos, D. (to be published 2009)

[13] Mostafa Keikha, Ahmad Khonsari, and Farhad Oroumchian, Rich Document Representation and Classification: An Analysis, **Knowledge-Based Systems**, Vol. 22, Issue 1, pp. 67-71, Jan. 2009. (ISSN: 0950-7051) (ISI Listed)

[12] Farzaneh Saboori, Hassan Bashiri, Farhad Oroumchian, "Assessment of Query Reweighting, by Rocchio Method in Farsi Information Retrieval", **International Journal of Information Science and Technology Volume 6, No.1, 2008**.(ISSN: 17268125)

[11] B. Khandzad, E. Ashoori, F. Oroumchian and B. N. Araabi, "Using Plausible Reasoning for Developing Intelligent Systems", **Applications and Science in Soft Computing**, Editors, Lotfi, Ahmad; Garibaldi, Jonathon M., **Springer Verlog**, ISBN: 3-540-40856-8, pp. 203-212, 2004.

[10] Azam Jalali, Farhad Oroumchian, Mahmoud Reza Hejazi, " Comparison of Different Distance Measures on Hierarchical Document Clustering in 2-Pass Retrieval", **WSEAS Transactions on Computers**, Volume 3, Issue 3, pp. 725-731, July 2004.

[9] Seyed Hassan Seyed Razi, Firooz Mazhar Garamaleki, Farhad Oroumchian, "A Comparison of the Performance of Fuzzy Models with Geometric and Probabilistic Models of Retrieval on Persian Text", **WSEAS Transactions on Systems**, Volume 2, Issue 4, October, 2003.

[8] Maseud Rahgozar, Farhad Oroumchian, "An effective strategy for Legacy Systems' evolution", to be published in the **Journal of Software Maintenance and Evolution: Research and Practice**, Volume 15, Issue 5, pp 325-344, September/October 2003.

- [7] Elham Ashori, Farhad Oroumchian, Babak Arabi, , "Improving the Ranking of the PLIR System by Local and Global Approaches", **WSEAS Transactions on Systems**, Issue 3, Volume 2, PP724-733, July 2003.
- [6] Bita Khandzad, Farhad Oroumchian, "Using Plausible Reasoning for Implementing Intelligent Tutoring Systems", **WSEAS Transactions on Systems**, Issue 3, Volume 2, pp 708-715, July 2003.
- [5] Maseud Rahgozar, Farhad Oroumchian, "A Transformational Approach for Legacy Systems' Evolution", **WSEAS Transactions on Systems**, No. 2, Vol 2, pp. 407-412, April 2003, ISSN 1109-2777.
- [4] Maseud Rahgozar, Farhad Oroumchian, "Automatic Evolution of Legacy Data Objects", **WSEAS Transactions on Systems**, No. 2, Vol 2, pp. 417-422, April 2003, ISSN 1109-2777.
- [3] M. Tashakori, Farhad Oroumchian, M. Meybodi , "Bon: The Persian Stemmer", First Eurasia Conference on Advances in Information and Communication Technology, Tehran, Iran, 29-31 October 2002. Also appeared in **Lecture Notes on Computer Science, Springer**, Eds. H. Shafazand, A Min Tjoa, ISBN 03029743, 2002.
- [2] Maseud Rahgozar, Farhad Oroumchian , "Classification and Guidelines for Legacy Systems Renovation", **The Journal of Faculty of Engineering University of Tabriz**, No. 29, 2003. (in Persian)
- [1] Farhad Oroumchian, N. Karimi, M. Zolfi, "Experiments in Farsi Text Retrieval", G. Antoniou, N. Mastorakis, O. Penfilov, editors of **Advances in Signal Processing and Computer Technologies**, ISBN 960-8052-37-8, 2001.

CONFERENCES

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- [58] Abolfazl AleAhmad, Hadi Amiri, Masoud Rahgozar and Farhad Oroumchian, Experiments with English-Persian Text Retrieval, the 2nd International ACM Workshop Improving Non-English Web Searching (iNEWS08), ACM 17th Conference on Information and Knowledge Management (CIKM2008), Napa Valley, USA, October 26-30, 2008.
- [57] Maryam Karimzadehgan, Geneva G. Belford, and Farhad Oroumchian, Expert Finding by Means of Plausible Inferences, International Conference on Information and Knowledge Engineering (IKE'08),Las Vegas, USA, July 14-17, 2008.
- [56] M. Mohtarami, H. Amiri and F. Oroumchian, Using Heuristic Rules to Improve Persian Part of Speech Tagging Accuracy, The 6th International Conference on Informatics and Systems (INFOS2008), 27-29 March 2008.
- [55] H. Amiri, A. Zarnani, M.Tavallae, S. Abedinzadeh, M. Rahgozar, F. Oroumchian, Investigation of the Lambda Parameter for Language Modeling Based Persian Retrieval, The 6th International Conference on Informatics and Systems (INFOS2008), 27-29 March 2008.
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- [53] Zahra Eidoon, Nasser Yazdani and Farhad Oroumchian, Ontology Matching Using Vector Space, ECIR2008 - 30th European Conference on Information Retrieval, 30 March – 3rd April 2008.
- [52] Mostafa Keikha, Fahimeh Raja, Farhad Oroumchian, Ahmad Khonsari, Application of the Theory of the Dempster-Shaffer in XML Retrieval, 15th Iranian Electrical Engineering Conference, 2007. (Farsi)
- [51] Mostafa Keikha, Farzad Mahdikhani, Farhad Oroumchian, Ahmad Khonsari., Designing a Tree-based Part of Speech Tagger for Persian 15th Iranian Electrical Engineering Conference, 2007. (Farsi)

- [50] Mostafa Keikha, Narjes Sharif Razavian, and Farhad Oroumchian, "Document Representation and Quality Of Text: An Analysis", Eds. Michael W. Berry and Dr Malu Castellanos, Survey of Text Mining: Clustering, Classification and Retrieval, Second Edition, Springer 2007.
- [49] Zahra Eidoon, Nasar Yazdani, Farhad Oroumchian, "A Vector Based Method of Ontology Matching", Third International Conference on Semantics, Knowledge and Grid (SKG 2007), Xi'an, Shan Xi, China., 29-31 October 2007.
- [48] Fahimeh Raja, Samira Tasharofi, Farhad Oroumchian, "Statistical POS tagging experiments on Persian text", The Second Workshop on Computational Approaches to Arabic Script-based Languages, Stanford University, July 21-22, 2007.
- [47] Fahimeh Raja , Hadi Amiri , Samira Tasharofi, Hossein Hojjat, Farhad Oroumchian, "Evaluation of part of speech tagging on Persian text", The Second Workshop on Computational Approaches to Arabic Script-based Languages, Stanford University, July 21-22, 2007.
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- [45] Fahimeh Raja, Mostafa Keikha, Maseud Rahgozar, Farhad Oroumchian, " Effectiveness of Rich Document Representation in XML Retrieval", RIAO 2007 - 8th Conference - Large-Scale Semantic Access to Content (Text, Image, Video and Sound), Pittsburgh, PA, USA, May 30 to June 1, 2007.
- [44] Narjes Sharif-razavian ,Mostafa Keikha And Farhad Oroumchian, "An Analysis of the Effect of Document Representation on the Classification of Noisy Texts", SIAM Data Mining (SDM2007), Minneapolis, Minnesota, USA, April 26-28 2007.
- [43] Fahimeh Raja, Samira Tasharofi, Masued Rahgozar, Farhad Oroumchian, "Evaluation Of Statistical Part Of Speech Tagging Of Persian Text", International Symposium on Signal Processing and its Applications (ISSPA2007), Sharjah,United Arab Emirates (U.A.E.), 12 - 15 February 2007.
- [42] Abolfazl AleAhmad , Parsia Hakimian , Farhad Oroumchian , "N-Gram And Local Context Analysis For Persian Text Retrieval", International Symposium on Signal Processing and its Applications (ISSPA2007), Sharjah,United Arab Emirates (U.A.E.), 12 - 15 February 2007.
- [41] Alireza Vazifedoost, Farhad Oroumchian and Masoud Rahgozar, "Finding Similarity Relations in Presence of Taxonomic Relations in Ontology Learning Systems", IEEE Symposium on Computational Intelligence and Data Mining, CDIM2007, Honolulu, USA, April 1-5, 2007.
- [40] Fahimeh Raja, Mostafa Keikha, Masued Rahgozar, Farhad Oroumchian, Using Rich Document Representation in XML Information Retrieval, Fifth Workshop of the INitiative for the Evaluation of XML Retrieval INEX 2006, Schloss Dagstuhl, December 18-20, 2006.
- [39] F. Raja, M. Rahgozar, F. Oroumchian, "Using Dempster-Shafer Theory in XML Information Retrieval", ICKM 2006 : "International Conference on Knowledge Mining, Prague, Czech Republic, August 25-27, 2006.
- [38] A. R . Vazifedoost, M. Rahgozar, F. Oroumchian, "Using Automatic Ontology Learning Methods in Human Plausible Reasoning Based Systems", ICKM 2006 : "International Conference on Knowledge Mining, Prague, Czech Republic, August 25-27, 2006.
- [37]Kasem Fouladi, Farhad Oroumchian, "Unsupervised Learning of Persian Word Stem Detection with Minimum Stem Length", Second Workshop on Persian Language and Computer, University of Tehran, Tehran Iran, June 27-28, 2006. (in Farsi)
- [36] Amir Nayyeri, Farhad Oroumchian, "FuFaIR: a Fuzzy Farsi Information Retrieval System", The 4th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-06), Sharejeh, UAE, March 8-11,2006.

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- [35] Reza Shokri, Farhad Oroumchian, Nasser Yazdani, "CluSID: a Clustering Scheme for Intrusion Detection, Improved by Information Theory, IEEE International Conference on Networks (ICON 2005), Kuala Lumpur, Malaysia, November 16-18, 2005.
- [34] Hassan Bashiri, Farhad Oroumchian, Ali Moieni, "Persian Email Classification Based on Rocchio and K-Nearest Neighbor Approach, 13th Multi-disciplinary Iranian Researchers Conference in Europe, University of Leeds UK, July 2nd 2005.
- [33] Hassan Bashiri, Farhad Oroumchian, Mohammad Tagi Rohani, Ali Moieni, "Evaluation of LSI Indexing in Persian Text Retrieval", 10th Annual of Computer Society of Iran Computer Conference, Tehran, Iran, February 15-17, 2005. [in Farsi]
- [32] Maryam Karimzadegan, Jafar Habibi, Farhad Oroumchian, "XML Document Retrieval with Theory of Human Plausible Reasoning", 10th Annual of Computer Society of Iran Computer Conference, Tehran, Iran, February 15-17, 2005. [in Farsi]
- [31] Ehsan Darrudi, Masud Rahgozar, Farhad Oroumchian, Bahadorreza Ofoghi, "Application of Human Plausible Reasoning in Development of Question Answering Systems", 10th Annual of Computer Society of Iran Computer Conference, Tehran, Iran, February 15-17, 2005. [in Farsi]
- [30] Maryam Karimzadegan, Jafar Habibi, Farhad Oroumchian, "XML Document Retrieval by means of Plausible Inferences", in Advances in XML Information Retrieval, Third Workshop of the INitiative for the Evaluation of XML Retrieval INEX 2004, Schloss Dagstuhl, 6-8 December 2004, Lecture Notes on Computer Systems, Editors N. Fuhr, M. Lalmas, S. Malik and Z. Szlávik, Springer Verlag LNCS 3493, ISBN: 3-540-26166-4, 2005.
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- [25] Ehsan Darrudi, Bahadorreza Ofoghi, Farhad Oroumchian, "Knowledge-Based Question Answering with Human Plausible Reasoning", Recent Advance in Softcomputing (RASC2004), United Kingdom, 16 -18 December 2004.
- [24] Pirooz Chubak, Milad Shokouhi, Farhad Oroumchian, Hassan Bashiri, "Designing And Implementation Of "Regional Crawler" As A New Strategy For Crawling The Web", IADIS International Conference, E-Society 2004, Avila, Spain, July 16-19, 2004.
- [23] Fattane Taghiyareh, Ehsan Darrudi, Farhad Oroumchian, Neeyaz Angoshtari, "Experiments with Persian Text Compression and Entropy for Web-Based Applications", The Thirteenth International World Wide Web Conference (www2004), New York, NY USA, May 17-22, 2004.
- [22] Azam Jalali, Farhad Oroumchian, "Rich Document Representation for Document Clustering", RIAO2004, Coupling Approaches, Coupling Media and Coupling Languages for Information Retrieval Avignon (Vaucluse), France, pp 800-808, April 2004.

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- [21] Azam Jalali, Mahmoud Reza Hejazi , Farhad Oroumchian, " Comparison of Different Distance Measures on Hierarchical Document Clustering in 2-Pass Retrieval", 3rd WSEAS Int.Conf. on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING, DATA BASES (AIKED 2004)), Salszberg, Austria, Feb 13-15 , 2004.
- [20] Azam Jalali, Mahmoud Reza Hejazi , Farhad Oroumchian "Application and Evaluation of Summarization on Document Clustering", The Second Workshop on Information Technology and its Disciplines (WITID2004), Kish Island, Iran, Feb 24-26, 2004.
- [19] Ehsan Darrudi, Mahmoud Reza Hejazi , Farhad Oroumchian " Assessment of a Modern Farsi Corpus ", The Second Workshop on Information Technology and its Disciplines (WITID2004), Kish Island, Iran, Feb 24-26, 2004.
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- [17] Fattane Taghiyareh, Ehsan Darrudi , Farhad Oroumchian, Neeyaz Angoshtari, , "Compression of Persian Text for Web-Based Applications, Without Explicit Decompression," , 3rd WSEAS International Conference on Applied Informatics and Communication, November 15-17, 2003.
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TECHNICAL REPORTS

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[2] Farhad Oroumchian, "Analysis of The Performance of The Search Engine of Gavanin System", An analytical report about performance of the Gavanin System of Data Processing of Iran (DPI) that hold all the laws passed by Iranian Parliament. Submitted to the Data Processing of Iran Company, June 2000.

[3] Farhad Oroumchian, "Experiments With Fuzzy Logic Based Models of Retrieval and Farsi Text: MMM Model and Paice Model", An analytical report on the performance of the MMM and Paice models of retrieval on Farsi Law texts for the search engine of the Gavanin System. Submitted to the Data Processing of Iran Company, Feb. 2001.

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[6] Farhad Oroumchian , "A proposal for a new model for DRLINK search engine", this proposal favored a dramatic shift in the matching model of DRLINK system, and proposed abandoning a Fuzzy matcher in the system, TextWise LLC, 1997.

PRESENTATIONS

Invited Speaker: "XML Information Retrieval by Plausible Inferences", QMIR/LKM Queen Mary Information Retrieval/ London Knowledge Network Seminar Series, **Queen Mary University of London**, London, UK, Dec 15, 2004.

Presenter: "Plausible Reasoning as a Tool for Building Intelligent Systems", Research Seminar Series, **University of Wollongong in Dubai**, March 11, 2004.

Farhad Oroumchian
Email: oroumchian@acm.org

Invited Speaker: "Knowledge Based Information Retrieval", a workshop in "Data Mining and Knowledge Management Workshop", Faculty of Engineering, **University of Tehran**, May 9-10, 2001.

Invited Speaker: "Information Retrieval With Farsi Text", a workshop in "Data Mining and Knowledge Management Workshop", Faculty of Engineering, **University of Tehran**, May 9-10 , 2001.

Invited Speaker: "Information Retrieval, Basic Concepts", a presentation in "Data Mining and Knowledge Management Workshop", Faculty of Engineering, **University of Tehran**, May 9-10, 2001.

Invited Speaker: "The Application of Fuzzy Logic in Retrieving Farsi Text", Invited speaker to Lecturers Seminar Series of **University of Tehran**. In this seminar the application of Fuzzy logic in retrieving Farsi text was discussed and some experimental results were presented Dec. 2000.

Invited Speaker: "Information Retrieval By Plausible Inferences", Invited speaker to Artificial Intelligence Seminar Series of **AI Group of Sharif University of Technology**. In this seminar the problem of information retrieval was presented as an AI challenge and then the use of plausible inferences in information retrieval were presented Feb. 2000.

Invited Speaker: "Information Retrieval By Plausible Inferences", Invited speaker to Machine Learning Seminar Series of **Machine Learning Group of University of Ottawa**. In this seminar the use of plausible inferences in information retrieval were presented and adaptation and learning methods for purifying the knowledge base and improving performance of the system were discussed in depth. Jan. 10 1997.

Invited Talk: Introduction To Perl. A quick introduction to Perl programming language and its application to Internet programming was presented as part of the Graduate Student Seminar series to about 50 faculty members and graduate students in the school of Computer and Information Science, **Syracuse University**, February 2nd, 1996.

TEACHING EXPERIENCE

UNDERGRADUATE	UNDERGRADUATE	GRADUATE
Human Computer Interaction	Programming in Fortran	Information Retrieval
IT Project Management	Computer Architecture & Organization	Data Mining
Analysis and Design of Information Systems	Compilers	Natural Language Processing
Advance Information Storage & Retrieval	Introduction to C Programming Language	
Theory of Languages and Machines	Advanced Programming C/C++	
Artificial Intelligence	Introduction to Algebra	
Expert Systems		
Databases, Introduction		
Databases, Advanced		

MASTER THESIS ADVISOR (not updated)

From Sept. 1999 – present, the following students have taking their MSc thesis with me: (last updated Sept. 2005)

Graduate Student: Mrs. Bita Khandzad

Thesis Title: *Improving User Modeling in an Intelligent Tutoring System Using Plausible Reasoning*

Date Finished: Summer 2003

Graduate Student: Mr. Firooz Mazhar

Thesis Title: *Retrieval of Farsi Text by Using Multi-stage Retrieval and Data Fusion*

Date Finished: Jan. 2004.

Graduate Student: Mrs. Elham Ashori

Thesis Title: *Adaptive Filtering of Information By Plausible Inferences and Dempster-Shafer Theory*

Date Finished: Summer 2003

Graduate Student: Mr. Ehasan Dorodi

Thesis Title: *Question Answering By Plausible Inferences*

Date Finished: August 2005

Graduate Student: Mrs. Azam Jalali

Thesis Title: *Design of a Two stage Searching & Browsing Tool for Internet*

Farhad Oroumchian
Email: oroumchian@acm.org

Date Finished: July 2004

Graduate Student: Mr. Khalili

Thesis Title: *An Intelligent Agent Environment Toolkit*

Date Finished: September 2004

Graduate Student: Ms. Karimzadegan

Thesis Title: *XML Information Retrieval Using PLIR*

Date Finished: Jan 2005

Graduate Student: Mr. Vazifedost

Thesis Title: *Text Mining Techniques for Automatic Creation of PLIR system's Knowledge Base*

Date Started: July 2005

Graduate Student: Ms. Raja

Thesis Title: *An Investigation of XML Retrieval by Plausible Inferences and Propagation methods*

Date Started: Sept 2005

Date Finished: Nov. 2006.

I am/have been co-supervisor of 20 MSc thesis.

OTHER EXPERIENCES

Team Leader of The Simulation Team – TRU-UOWD in German Open April 2004, ROBOCUP 2004

I was the leader of a Robocup simulation team that represented University of Wollongong in Dubai. This team won the 3rd place in German Open 2003.

Team Leader of The Simulation Team – Thunder in ROBOCUP2002 Fukuoka, Japan and American Open 2003.

I was the leader of a Robocup simulation team named Thunder which represented University of Tehran, College of Engineering in this international competitions. In American Open this team won the third place

ACM Coach Fall 1999 & Fall 2000 & Fall 2001

I was one of the two coaches of Faculty of Engineering (University of Tehran) teams participated in the regional ACM programming contest in the Sharif University of Technology. My team sat at the 8th place in national level.

Master Oral Exam

I was external or internal examiner of about 30 masters' students in the universities of Tehran, Tarbiat Modares, Amir Kabir, Shahid Beheshti and Azad from Spet 1999.till July 2003.

Doctoral Oral Exam

I was a committee member of Mr.Abdulaziz Al-Sehibani. Mr. Al-Sehibani, a Ph.D. candidate in school of Information and Computer Science-Syracuse University, successfully defended his dissertation topic "Algorithms for Multimedia Object Allocation On to Heterogenous Storage Systems"on March 24, 1999.

Fall 1997-Fall 1998 School Of Information Studies, Syracuse University

Research Practicum

Ms. Anne Diekema, a Ph.D. candidate in the school of Information Studies in Syracuse University took her research practicum with me. The topic of her research practicum was "Information Retrieval Evaluation". Ms. Diekema was given an "A" grade for exceptional work and report in this practicum.

OTHER ACADEMIC ACTIVITIES

Program Committee Member, COLING 2004, Workshop On Computational Approaches To Arabic Script-Based Languages, Geneva, Switzerland, 23-27 August 2004.

National High Council of Dissemination of Information, Iran

I was a member of the committee on *Farsi Text & Language in Digital Form* since Jan 2001. In this committee all issues related to storage, retrieval, process and presentation of Farsi text & language are discussed and the overall policy is decided. The reports of this committee are submitted to the council for approval and implementation as global government policy on these issues.

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Chair of session of 4th International Conference on Recent Advances in Soft Computing (RASC2002), Nottingham, United Kingdom, Dec 12-13. 2002.

Chair of Distributed Database Systems session of the ‘‘Seventh Annual Conference of Computer Society of Iran, CSIC2002’’, Feb 26th-Feb 28th 2002.

Chair of SB2 and 4 sessions of ‘‘Tenth Annual Iranian Conference of Electrical Engineering, ICEE2002’’, May 12-14th-2002, Tabriz Iran. (www.tabrizu.ac.ir/icee2002)

Journal & Conference Referee: I was/am the referee of the following conferences & journals

The 28th Annual International ACM SIGIR Conference on Research & Development in Information Retrieval, August 15-19, 2005.

Initiative for the Evaluation of XML Retrieval INEX 2004 Workshop Proceedings published in Springer-Velog Lecture Notes in Computer Science, 2004.

The 10th Electrical Engineering Conference of Iran, IEEE, Iranian Electrical Engineering Society (IEE), April 3-5th 2002.

The Seventh Annual Conference of Computer Society of Iran, CSIC2002, Feb 26th-Feb 28th 2002.

The Sixth Annual Conference of Computer Society of Iran, CSICC2001, Feb 28th-March 1st 2001.

The Fifth Annual Conference of Computer Society of Iran, CSICC2000, Feb 28th-March 1st 2000.
(www.sbu.ac.ir/csicc2000)

Iranian Journal of Electrical and Computer Engineering, (<http://www.ijece.org>)

International Journal of Engineering, P.O.Box 13145-1659, Enghelab Ave., Tehran, Iran. (www.ije-ir.org),
(Published in English)

Journal of Faculty of Engineering, Publication of University of Tehran. Tehran, Iran. (published in Farsi)

Iranian Journal of Science & Technology, Published by School of Engineering, Shiraz University, Shiraz, Iran,
(<http://succ.shirazu.ac.ir/~ijst71>)

Question Designer and Member of Selection Committee for Iranian National Doctoral Entrance Exam for Computer Science Majors- 2000 & 2001 & 2002

I was a question designer and member of the review and selection committee for the National Computer Science Doctoral Entrance test. I have submitted 8 questions every year for each one of the topics "Theory of Languages and Machines" and "Artificial Intelligence".

Question Designer and Member of Selection Committee for Iranian National Graduate Entrance Exam for Computer Science Majors- 2000 & 2001 & 2002

I was a question designer and member of the review and selection committee for the National Computer Science Graduate Entrance test. I have submitted 8 questions every year for the topics "Theory of Languages and Machines" and "Artificial Intelligence".

WORK EXPERIENCE:

**July 2002-July 2003 Director of Information & Informatics Center
Faculty of Engineering, University of Tehran, Iran.**

I am responsible for strategic management and maintenance of IT infrastructure in Faculty of Engineering of University of Tehran. The IT infrastructure consists of several smaller networks in departments and several dozen labs and hundreds of nodes scattered around the Paradise-2 campus. Besides maintaining the network, Informatics center also manages several projects for improving or automating office works in the Faculty of Engineering.

**Aug 2002- July 2003 Telecommunication Research Center
Scientific Advisor, Consultant**

I was scientific advisor and consultant of two projects in TRC. One of these project is for implementing a knowledge-based Information Retrieval System specialized in searching the web for Telecommunication related articles and information. The other one is a project to build bi-lingual search engine.

**Sept. 1999- Nov. 2001 MT& AS Co. (Tehran-Iran)
Project Manager - ECS Information Center Site**

I was the project manager of the information center & internet cite of the Electronics Council Secretariat (ECS). This project is consist of building a web site for the High Council of The Electronics of Iran to provide all the information related to the electronics to the users. This site includes News, Exhibitions & Seminars, Statistics, Contracts etc. (www.ecs.or.ir)

**April 1996- April 1999 TextWise LLC.
Researcher/Software Engineer**

I was a senior member of CINDOR project, developing a multilingual information retrieval system with the ability to search in English, French, Spanish and Japanese. Participating in DR-LINK re-engineering projects such as Document Processing, Query Processing and Filtering projects. Performance evaluation of DR-LINK. Re-writing and maintaining programs in DR-LINK. Writing indexing utilities. Participating in TIPSTER project as software engineer. Designing and programming of DR-ALERT, the routing subsystem of DR-LINK.

**March 1994- Mar. 1996 Faculty Computing Support, School of Management, Syracuse University
Computer Consultant**

Helping the faculty with computers. Maintaining several databases like CRSP and COMPUSTAT. Counseling & support for the transition from SUVM (IBM mainframe) to SUNIX (UNIX servers network). I have developed a data base for CRSP stock exchange summaries using MS ACCESS.

**Jan. 1994- Sept. 1994 DeFelsko Inc. Ogdensburge, NY, USA
System Designer**

Upgrading and expanding DeFelsko's computerizing sales systems to include Customer Services and shipping operations too. The new system works under their Novel network and is written in FOX Pro for windows.

**Feb. 1988-July 1989 Electronic & Communication Industries, Tehran, Iran.
System Designer, Head of Software Department of Research Division**

Designed several data bases for computerizing Electronic Parts Warehouse, Foreign Purchasing department and personnel. Participating in research and development of a hand-held communication device and developed an editor and a file handler for it. Promoted to the head of software department and was responsible for consulting, supporting and installing software for Electronics Research division.

**Oct. 1986-Jan. 1988 Ministry of Planing & Budget, Tehran, Iran.
System Designer**

Designed a hierarchical on-line database for the government budget. System had 150+ on-line panels and 200,000 lines of code. Designed a query language for the database system.

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July 1986-July 1987 **Sharif University of Technology, Tehran, Iran.**
System Designer

Designed an on-line system with several data bases for students, courses and professors to computerize the registration process.

March 1985-Sept. 1986 **NIGC, National Iranian Gas Co., Tehran, Iran.**
System Designer

Analyzed both manual and computerized inventory system of the main warehouse store to design more effective computerized system. Designed a new on-line relational database system to improve purchasing operations.

Projects:

Summer 1992 *Converting output of OTTER to Well-Formed Formulas*

Implementing software for converting output of OTTER package. OTTER is a theorem proving system and its outputs are in logical clause forms my software reads these clauses and translates them into well-formed formulas that are more readable for humans.

Jan. 1988-July 1989 **PEIK**
Electronic & Communication Industries, Tehran, Iran.

I have written a Persian Text Editor and Control software for a hand-held communication device called PEIK. Up to 99 messages can be typed in, saved, and transmitted in a variety of ways. Messages also can be received and filed in the message structure of the system. The programs originally were written on a simulation of the device on PC and later transferred into the memory of the device. All the programs were written in C.

Spring 1985 **Circuit Design Package**

Design and implementation of a package for helping in design of sequential and combinational circuits from beginning to the end including coding, QM technique for simplifying and drawing the circuit map.