Mohammad Bahrani

bahrani@sharif.edu

Work Address (acade Language and Linguist Sharif University of Te Azadi Ave., Tehran, Ir Tel: +98-21-66164739 Cell Phone: +98 912 52	winic):Work Address (business):ics Center,ASR-Gooyesh Companyics Center,No. 2-10, Boroumand Alley,an.Teymoori Blvd., Habibollah St.,26 2398Tel: +98-21-66551525
PERSONAL	 Birth Date: Sep. 21, 1977 Birth Place: Kazeroun, Fars Province, Iran Marital Status: Married
EDUCATION	 Ph.D. in Artificial intelligence, 2004-2010 Sharif University of Technology, Tehran, Iran Thesis: Introducing a hybrid language model for improving performance of continuous speech recognition systems. Advisor: Dr. Hossein Sameti
	 M.S. in Artificial intelligence, 2001-2004 Sharif University of Technology, Tehran, Iran Thesis: Incorporating Context Dependent Structures for HMM-based Continuous Speech Recognition Systems. Advisor: Dr. Hossein Sameti
	 B.S. in Computer Engineering-Hardware, 1996-2000 Shiraz University, Shiraz, Iran Thesis: Design and implementing a real time system for positioning of a slider object. Advisor: Dr. Seraj-al-din Katebi
POSITION	Assistant Professor (2011-present) Languages and Linguistics Center, Sharif University of Technology Technical Manager (2005-present)
	 ASR-Gooyesh Pardaz Company
FIELDS OF INTEREST	 Natural Language Modeling and Processing Computational Linguistics Speech Processing and Speech Recognition Statistical Pattern Recognition Artificial Neural Networks Evolutionary Computing
EXPERIENCES	 As Assistant Professor at Sharif University of Technology Teaching An Introduction to Computational Linguistics Advance Mathematics and Statistics in Computational Linguistics Computer Programming Artificial Intelligence An Introduction to Mathematics and Statistics Natural Language Processing (NLP) M.Sc. Thesis Supervision Automatic Detection and Disambiguation of Metaphorical and Metonymic

-- Mohammad Bahrani --

	Concepts
	 Utilizing Latent Topic Models for Persian Document Classification
	• Introducing an Approach to Build a Phrase Structure Treebank Using
	Persian Dependency Treebank
	• Automatic Blank Verse Poet Identification Using Linguistic Features
	• Automatic Labeling of Prosody in Persian Unmarked Speech
	• Pattern-based Relation Extraction on Persian News Articles
	• Markov Logic Networks for Persian Spoken Language Understanding
	• Question Analysis for Open-domain Persian Question Answering System
	 Persian Language Modeling Using Complex Networks Device Another Developing Using Knowledge based Another based
	• Persian Anaphora Resolution Using Knowledge-based Approach
	Research
	 Morphological Analysis of Persian Conversational Words
	• Persian Natural Language Generation
	 Persian Dialogue Systems
	• Abstractive Text Summarization for Persian
	• Gender Identification of Author
	 Executive Chair of the 3rd National Conference on Computational Linguistics
	As Technical manager at ASR-Gooyesh Pardaz Company
	 Persian continuous speech recognition system (Nevisa project)
	 Persian Text to Speech (TTS) synthesis systems (Ariana project)
	 Speech enabled IVR systems (Niusha project)
	 Persian word spotting system (VajeYab project)
	 Intelligent typing system (Nevisyar project)
	 Spoken dialog systems
	 Persian telephony digit recognition
	 Context dependent acoustic modeling for Persian CSR systems
	• Editing and processing of large Persian text corpora
	 Extracting N-gram models for Persian language Developing a commutational gramming for Developing based on CDSC
	 Developing a computational grammar for Persian based on GPSG Developing a various lowing for speech recognition and TTS systems
	 Preparing various lexicons for speech recognition and 115 systems Dervice toleranger
	 Persian tokenizer Audio ratrioval systems
	 Auto reflectal systems Text to Speech synthesis on mobile devices
	 Speech to Speech translation project
	speech to speech translation project
FIELDS OF	 Natural Language Modeling and Processing
INTEREST	 Computational Linguistics
	 Speech Processing and Speech Recognition
	 Statistical Pattern Recognition
	 Evolutionary Computing
	 Artificial Neural Networks
SELECTED DUDLICATIONS	1. Jamshidlou, P., Bahrani, M. , "Understanding Meaning in a Text-based Dialog
PUBLICATIONS	System for Specific Domain of Ficket Reservation", Pazand Journal, 2013. (in
	reisian) 2 Mahmoodzada 7 Robrani M "A good study of phonatic reduction and its rate
	2. Intraintoouzaut, Z., Dantani, IVI., A case study of phonetic feduction and its fole
	Research in Linguistics 2013 (in Persian)
	3 Bahrani , M. Sameti H "Incorporating Linguistic Knowledge in a Persian
	Continuous Speech Recognition System", Iranian Journal of Languages and

Linguistics, 2012. (in Persian)

- 4. **Bahrani, M.**, Sameti, H., "Building Statistical Language Models for Persian Continuous Speech Recognition Systems Using Peykare Corpus", International Journal of Computer Processing of Oriental Languages, 2011.
- 5. **Bahrani, M.**, Sameti, H., "A Computational Grammar for Persian Based on GPSG", Language Resources and Evaluation Journal, 2011.
- 6. Sameti, H., Veisi, H., **Bahrani, M.**, Babaali, B. & Hosseinzadeh, K., "A Large Vocabulary Continuous Speech Recognition System for Persian Language", EURASIP Journal on Audio, Speech, and Music Processing, 2011.
- 7. Bijankhan, M., Seikhzadeghan, J., **Bahrani, M**., Ghayoomi, M., "Lessons from Creation of a Persian Written Corpus: Peykare", Language Resources and Evaluation Journal, 2011.
- 8. Sheikhshab, G., Sameti, H., **Bahrani, M.**, "Extracting precise n-gram probabilities from Persian SCFGs", International Conference on Computer, Communication and Information Technology, 2011.
- 9. **Bahrani, M.**, Sameti, H., "A New Bigram-PLSA Language Model for Speech Recognition", EURASIP Journal on Advances in Signal Processing, 2010.
- Sameti, H., Veisi, H., Bahrani, M., Babaali, B., Hosseinzadeh, K., "Nevisa, a Persian Continuous Speech Recognition System", In Communications in Computer and Information Science, Advances in Computer Science and Engineering, Vol. 6, pp. 485-492, Springer Berlin Heidelberg, 2008.
- 11. **Bahrani, M.**, Sameti, H., Hafezi, N., Momtazi, S., "A New Word Clustering Method for Building N-gram Language Models in Continuous Speech Recognition Systems", In Lecture Notes in Computer Science, LNAI 5027, pp. 286-293, Springer, 2008.
- Momtazi, S., Sameti, H., Fazel-Zarandi, M., Bahrani, M., "Robust Parsing for Word Lattices in Continuous Speech Recognition Systems", In Proc. IEEE International Conference on Information Sciences, Signal Processing and it's Applications (ISSPA), Sharjeh, UAE, 2007.
- Bahrani M., Sameti H., Hafezi N., Movasagh H., "Building and Incorporating Language Models for Persian Continuous Speech Recognition Systems", In Proc. 5th international conference on Language Resources and Evaluation, pp. 2590-2593, Genoa, Italy, May 2006.
- 14. **Bahrani M**., Sameti H., Hafezi N., Momtazi S., Movasagh H., "Utilizing Persian Text Corpus for Statistical Language Modeling in Persian Continuous Speech Recognition Systems", The 2nd workshop on Persian language and computer, Tehran, Iran, Jun 2006. (in Persian)
- 15. **Bahrani M.**, Sameti H., "Extraction and Modeling Context Dependent Phone Units for Improvement of Continuous Speech Recognition Accuracy by Phonemes Clustering", Iranian Journal of Electrical and Computer Engineering, Vol 2, 2006. (in Persian)
- 16. **Bahrani M**., Babaali B., Sameti H., "Incorporating Phoneme Language model in Persian Continuous Speech Recognition", The 7th Conference of Intelligence Systems, Tehran, Iran, 2005. (in Persian)

PATENT	Mohammad Bahrani and Hossein Sameti (with ASR-Gooyesh Pardaz Company),
	"A Multipurpose Grammatical Model for Persian Language based on GPSG",
	Iranian Patent, No. 41554, July 2007.

SELECTED TALKS

- "Content-based Audio Retrieval", Workshop on Digital Archive and Information Retrieval Methods, Islamic Republic of Iran Broadcasting, Jan. 2012.
 - "Applications of Computational Linguistics in Humanities", Institute for Humanities and Cultural Studies, Jun. 2011.
- "Persian Language Modeling", Language and Linguistics Center, Sharif University

of Technology, Oct. 2010.

- "Speech Recognition Systems", 3rd Broadcast Engineering Conference, Tehran, Iran, Dec. 2009.
- "Speech Recognition for Banking", ISI (Informatics Society of Iran)'s monthly seminar, Tehran, Iran, May. 2009.
- "Speech recognition Systems", Speech, Image and Intelligence seminar, Qazvin Azad University, Qazvin, Iran, Mar. 2009.
- "Spoken Dialogue Systems for Banking", Islamic Banking Workshop, Tehran, Iran, Aug. 2008.

AWARDS & HONORS

- Nominated as the candidate for the best technopreneur, Sheikh Bahai Technopreneurship Festival, Isfahan, 2014.
- Nominated as the top lecturer of Languages & Linguistics Center, Sharif University of Technology, 2014.
- Member of National Foundation of Elites.
- 2nd ranked in the M.Sc. graduates of the Artificial Intelligence, Computer Eng. Dept., Sharif University of Technology, 2004.
- 3rd ranked in the B.Sc. graduates of the Computer Science and Eng. Dept., Shiraz University, 2000.
- 12th ranked in Iran National Graduate Studies Entrance Examination, 2001.