

Curriculum Vitae (C.V.)

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Personal Details

Full Name: Hossein Zeinali
Nationality: Iranian
Religion: Islam, Shia
Birthday: 17 Oct. 1985
Marital Status: Married

Contact Addresses

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Education

Ph.D. Now Department of Computer Engineering, Sharif University of Technology, Tehran, Iran
Area: Artificial Intelligence
Advisor: Dr. Hossein Sameti
Thesis: Improving Robustness of Speaker Verification Systems Against Non-Identity Information
M.Sc. 2012 Department of Computer Engineering, Sharif University of Technology, Tehran, Iran
Area: Artificial Intelligence
Advisor: Dr. Hossein Sameti
Thesis: Text-Independent Speaker Identification in Large Population Applications
GPA: 18.19/20
B.Sc. 2010 Department of Computer Engineering, Shiraz University, Shiraz, Iran
Area: Software Engineering, Computer Engineering
Advisor: Dr. Sattar Hashemi
Thesis: Learning to Play Chess Using Reinforcement Learning and Neural Networks with Database Games
GPA: 17.23/20 (Rank 3)

Research Interests

- **Fields:** Artificial Intelligence, Digital Signal Processing, Speech Processing, Machine Learning, Artificial Neural Network, Pattern Recognition and Machine Learning.

- **Research Focus:** Digital Signal Processing, Speech Processing, Speaker Identification, Speaker Verification, Keywords Spotting, Speech Recognition, Spoken Term Detection.

Teaching Experience

Teaching Assistant in Shiraz University

- Engineering Mathematics (2007–2008[1])
- Operating System(2008–2009[2])
- Information Storage & Retrieval (2009–2010[1], 2009–2010[2], 2009–2010[2-Shiraz Virtual University])
- Numerical Calculation (2008–2009[2])
- Theory of Languages and Automata(2008–2009[2])

Teaching Assistant in Sharif University of Technology

- Signal and System (2011-2012[1])
- Speech Processing (2012-2013[2], 2013-2014[2])
- Digital Signal Processing(2013-2014[1])

Educational Statistics

- First Student in Following Courses:
 - Digital Video Processing [MS]
 - Advanced Digital Signal Processing [MS]
 - Probability and Statistic
 - Fundamental Programming
 - Logic Circuits
 - Advanced Logic Circuits
 - Electric Circuits
 - Computer Networks
 - Programming Languages Design
 - Physic 2
- Second Student in Following Courses
 - Speech Recognition [MS]
 - Engineering Mathematics
 - Discrete Mathematics
 - Data Structure
 - Theory of Languages and Automata
 - Principles of Programming
 - Advanced Programming
 - Compiler
 - Information Storage and Retrieval
 - Microprocessor

Awards

- **(2016) Best student paper award**, Best student paper award in the Speaker and Language Recognition Workshop, [Odyssey 2016](#), was hosted by the University of the Basque Country (UPV/EHU). This award was given to me by [Cirrus Logic](#) company.
- **(2015) Best paper award**, Best paper award in the 23th Iranian Conference on the Electrical Engineering, was hosted by Sharif University of Technology.
- **(2012) Fourteen Rank**, Nationwide PhD entrance exam in Artificial Intelligence of Iranian Universities.
- **(2010) Thirty Fifth Rank**, Nationwide M.Sc. entrance exam in Artificial Intelligence of Iranian Universities.
- **(2010) B.Sc. Third Rank**, Ranked Third best among all of the university computer engineering students in year 2010.

Programming Languages

- Java Very Good (Favorite Language)
- C Good
- C# Good
- Matlab Good
- Python Good
- C++ Pretty Good
- Assembly Pretty Good (80x86, 8086)
- Java ME Pretty Good(Mobile programming using Java ME)
- HTML A little
- PHP A little
- HDL A little
- Python For S60 A little
- VB Able to modify

Operating Systems

- Linux Normal
- Windows Pretty Good
- DOS Normal

Language Spoken

- Persian(Farsi) Native Language
- English Good
- Arabic A Little

Publications, Conferences

[1] **H. Zeinali**, H. Sameti, L. Burget, J. Cernocky, N. Maghsoodi, and P. Matejka, "**i-vector/HMM Based Text-dependent Speaker Verification System for RedDots Challenge**," InterSpeech (2016)

[2] **H. Zeinali**, H. Sameti, and L. Burget, "**HMM-Based Phrase-Independent i-vector Extractor for Text-Dependent Speaker Verification**," IEEE/ACM Transactions on Audio, Speech, and Language Processing (**Submitted**)

- [3] **H. Zeinali**, H. Hadian, and B. BabaAli, "**Online Signature Verification Using i-vector Representation**," IEEE Transactions on Cybernetics (**Submitted**)
- [4] **H. Zeinali**, L. Burget, H. Sameti, O. Glembek, and O. Plchot, "**Deep neural networks and hidden Markov models in i-vector-based text-dependent speaker verification**," Odyssey-The Speaker and Language Recognition Workshop (2016) (**Best student paper award**)
- [5] N. Maghsoodi, H. Sameti, and **H. Zeinali**, "**Localized discriminative Gaussian process latent variable model for text-dependent speaker verification**," ESANN (2016)
- [6] **H. Zeinali**, A. Mirian, H. Sameti, and B. BabaAli, "**Non-speaker information reduction from Cosine Similarity Scoring in i-vector based speaker verification**," Computers & Electrical Engineering (2015).
- [7] **H. Zeinali**, E. Kalantari, H. Sameti, and H. Hadian, "**Telephony Text-Prompted Speaker Verification Using I-Vector Representation**," in Acoustics, Speech and Signal Processing (ICASSP), 2015 IEEE International Conference on, Australia, 2015.
- [8] E. Kalantari, H. Sameti, and **H. Zeinali**, "**Speaker Models Reduction for Optimized Telephony Text-Prompted Speaker Verification**," in Electrical & Computer Engineering (CCECE), 2015 28th IEEE Canadian Conference on, Canada, 2015.
- [9] **H. Zeinali**, H. Sameti, and H. Hadian, "**Real-Time Speaker Identification Using Speaker Model Distance**," in Proceeding of the Electrical Engineering (ICEE), 2015 23th Iranian Conference on, 2015. (**Best paper award**)
- [10] **H. Zeinali**, H. Sameti, and H. Veisi, "**Design and Collection of the Persian Telephonic Database for Text-Dependent Speaker Verification**," in Proceeding of the Electrical Engineering (ICEE), 2013 21th Iranian Conference on, May 2013. (in Persian)
- [11] **H. Zeinali**, H. Sameti, H. Khaki, and B. BabaAli, "**A fast two-level Speaker Identification method employing sparse representation and GMM-based methods**," in Information Science, Signal Processing and their Applications (ISSPA), 2012 11th International Conference on, pp. 45-48. IEEE, 2012.
- [12] **H. Zeinali**, H. Sameti, and B. BabaAli, "**A fast Speaker Identification method using nearest neighbor distance**," in Signal Processing (ICSP), 2012 IEEE 11th International Conference on, vol. 3, pp. 2159-2162. IEEE, 2012.

Experience

- **(Oct. 2015 – Now) Visiting student** at Faculty of Information Technology (FIT), Brno University of Technology, Czech Republic. My supervisors are Dr. [Lukas Burget](#) and Dr. [Jan \(Honza\) Cernocky](#).
- **(June. 2011 – May 2015) Part-Time Researcher & Programmer:** [Asr Gooyesh Pardaz \(AGP\) Company](#), Tehran, Iran. AGP is a company (with about 40 employees), that active in the field of speech processing and has several products in this area. For instance, Nevisa (Persian Dictation System), Ariana (Persian Text-to-Speech System), Shenasa (Text-Independent Speaker Identification System) and ...
- **(Sep. 2013 - Now) Part-Time Programmer:** [Soshiant Software Company](#), Shiraz, Iran. Soshiant is a company that active in designing and implementing of religious softwares.
- **Project Manager and Programmer of Speaker Identification System (Shenasa) in AGP.** Shenasa is a text-independent speaker identification system.
- **Project Manager and Programmer of Text Dependent Speaker Verification System in AGP.** This system is good for access control in banks and now is using in [Parsian Bank](#) (a major private bank in Iran)