

# Haşim Sak

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## Education

**Boğaziçi University**, Turkey — **Ph.D. Candidate** in Computer Engineering, SPA:4/4, 2005-Now  
Thesis Title: *Morphology-based language modeling for Turkish speech recognition.*

**Boğaziçi University**, Turkey — **M.S.** in Computer Engineering, GPA:3.5/4, 2001-2004  
Thesis Title: *A corpus-based concatenative speech synthesis system for Turkish.*

**Bilkent University**, Turkey — **B.S.** in Computer Science, GPA: 3.54/4, 1995-2000

## Experience

### **SOFTWARE ENGINEER, GVZ SPEECH TECHNOLOGIES, İSTANBUL, TURKEY 2000-2005**

- R&D on Turkish speech technologies; speech recognition and speech synthesis
- Worked on integration with major IVR vendors, such as ININ, Cisco, Intervice
- Ported the technologies to various platforms running Linux, Windows CE, Symbian OS
- Principal designer of the propriety SDKs and APIs for the company
- Distributed architecture for ASR and TTS engines that support load balancing
- Implementation of Microsoft SAPI 4 and SAPI 5 TTS interfaces for SAPI compliance
- Development of a faster speech decoder for Turkish
- Experience on programming digital telephony cards; Dialogic and Aculab
- Experience with Voice XML and MRCP standards for TTS and ASR engines

### **GRADUATE STUDENT IN ARTIFICIAL INTELLIGENCE LAB, BOĞAZIÇI UNIVERSITY 2005-NOW**

Turkish Speech and Language Processing:

- A finite-state morphological parser for Turkish
- A morphological disambiguation system for Turkish text
- Turkish spell checker for Mac OS X
- 400 million words Turkish web corpus
- Speech synthesis system for Turkish

Advisors: Tunga Güngör and Murat Saraçlar.

## Research Interests

Speech and Language Processing, Computational Linguistics:

- Automatic Speech Recognition
- Speech Synthesis
- Statistical Language Modeling
- Morphological Parsing
- Spelling Correction
- Morphological Disambiguation

## Skills

Programming languages: C/C++, Objective C, Python, Perl, Java, C#.

Programming experience on: Windows, Linux, Symbian, Windows CE, Mac OS X.

Telephony card programming: Dialogic, Aculab, Microsoft TAPI.

Specialized in: Speech and language processing applications, TTS and ASR engine implementations, development of client/server distributed systems, IVR speech engine integrations, voice application standards such as VoiceXML, MRCP.

Research on: Turkish speech and language processing; automatic speech recognition, speech synthesis, morphological parsing and disambiguation.

Languages: Turkish (Native), English.

## Publications

1. Ebru Arısoy, Haşim Sak, and Murat Saraçlar. Language modeling for automatic Turkish broadcast news transcription. In Proceedings of Interspeech 2007 - Eurospeech (To appear), 2007.

2. Haşim Sak, Tunga Güngör, and Murat Saraçlar. Morphological disambiguation of Turkish text with perceptron algorithm. In CICLing 2007, volume LNCS 4394, pages 107-118, 2007.

3. Haşim Sak, Tunga Güngör, and Yaşar Safkan. A corpus-based concatenative speech synthesis system for Turkish. Turkish Journal of Electrical Engineering and Computer Sciences, 14(2):209-223, 2006.

4. Haşim Sak, Tunga Güngör, and Yaşar Safkan. Generation of synthetic speech from Turkish text. In 13th European Signal Processing Conference (EUSIPCO 2005), 2005.

## Awards

National Scholarship Program for Ph.D. Students from The Scientific & Technological Research Council of Turkey (TÜBİTAK) (2006-Now)

Full Scholarship from Bilkent University (1995-2000)

## Referrals

Dr. Tunga Güngör, Assistant Professor, Computer Engineering, Boğaziçi University

Dr. Murat Saraçlar, Assistant Professor, Electrical and Electronic Engineering, Boğaziçi University

Dr. Yaşar Safkan, Ph.D. in MIT Physics, CTO of Overtteam

Serhat Görgün, Former CEO of GVZ, CEO of Inovent

Contact Info for referees is available upon request.