



**ÖZGEÇMİŞ**  
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**EĞİTİM BİLGİLERİ**

Ülke	Üniversite	Fakülte/Enstitü	Öğrenim Alanı	Derece	Mezuniyet Yılı
ABD	Johns Hopkins University		Elektrik ve Bilgisayar Mühendisliği	Doktora	2001
ABD	Johns Hopkins University		Elektrik ve Bilgisayar Mühendisliği	Yüksek Lisans	1997
Türkiye	Bilkent Üniversitesi	Mühendislik Fakültesi	ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ	Lisans	1994

**AKADEMİK/MESLEKTE DENEYİM**

Kurum/Kuruluş	Ülke	Şehir	Bölüm/Birim	Görev Türü	Görev Dönemi
Boğaziçi Üniversitesi	Türkiye	İstanbul	ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ	Yrd. Doç. Dr.	2005-
Boğaziçi Üniversitesi	Türkiye	İstanbul	ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ	Yrd. Doç. Dr.	2005-2009
AT&T Labs -- Research	ABD	Florham Park, NJ	Voice Enabled Services Research	Arge Personel	2000-2005

**UZMANLIK ALANLARI**

Uzmanlık Alanları
Doğal Dil İşlemesi , Konuşma (Speech) Analiz ve İşleme Teknikleri , Sinyal İşleme
Konuşma Tanıma, Dil İşleme, Konuşma İşleme

**ÖDÜLLER**

Ödülün Adı	Alındığı Kuruluş	Yılı
TÜBA-GEBİP	Türkiye Bilimler Akademisi (TÜBA)	2009
AT&T Labs Research Excellence Award	AT&T	2002

**Düzenleme Tarihi :29/09/2009**

**YAYINLARI****SCI, SSCI, AHCI indekslerine giren dergilerde yayımlanan makaleler**

Ebru Arisoy, Dogan Can, Siddika Parlak, Hasim Sak and Murat Saraclar. Turkish Broadcast News Transcription and Retrieval. IEEE Transactions on Audio, Speech, and Language Processing, 17(5):874-883, July 2009.

Ebru Arisoy and Murat Saraclar. Lattice Extension and Vocabulary Adaptation for Turkish LVCSR. IEEE Transactions on Audio, Speech, and Language Processing, 17(1):163-173, Jan 2009.

Ciprian Chelba, T.J. Hazen, and Murat Saraclar. Retrieval and browsing of spoken content. IEEE Signal Processing Magazine, 25(3):39-49, May 2008.

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Murat Saraclar and Sanjeev Khudanpur. Pronunciation change in conversational speech and its implications for automatic speech recognition. Computer Speech and Language, 18(4):375-395, October 2004.

Murat Saraclar, Harriet Nock, and Sanjeev Khudanpur. Pronunciation modeling by sharing gaussian densities across phonetic models. Computer Speech and Language, 14(2):137-160, April 2000.

Michael Riley, William Byrne, Michael Finke, Sanjeev Khudanpur, Andrej Ljolje, John McDonough, Harriet Nock, Murat Saraclar, Charles Wooters, and George Zavalagkos. Stochastic pronunciation modelling from hand-labelled phonetic corpora. Speech Communication, 29(2-4):209-224, November 1999.

**Diğer dergilerde yayımlanan makaleler**

Oya Aran , Ismail Ari, Lale Akarun, Erinc Dikici, Siddika Parlak, Murat Saraclar, Pavel Campr and Marek Hruz Speech and sliding text aided sign retrieval from hearing impaired sign news videos Journal on Multimodal User Interfaces, 2(2):117-131, Sep 2008

Mathias Creutz, Teemu Hirsimaki, Mikko Kurimo, Antti Puurula, Janne Pylkkonen, Vesa Siivola, Matti Varjokallio, Ebru Arisoy, Murat Saraclar, and Andreas Stolcke. Morph-Based Speech Recognition and Modeling of Out-of-Vocabulary Words Across Languages. ACM Transactions on Speech and Language Processing, Vol. 5, No. 1, Article 3, December 2007.

**Hakemli konferans/sempozyumların bildiri kitaplarında yer alan yayınlar**

Temucin Som, Dogan Can, and Murat Saraclar. HMM-based Sliding Video Text Recognition For Turkish Broadcast News. In Proceedings of The 24th International Symposium on Computer and Information Sciences (ISCIS), Northern Cyprus, 2009.

Erinc Dikici and Murat Saraclar. Investigating The Effect Of Data Partitioning For GMM Supervector Based Speaker Verification. In Proceedings of The 24th International Symposium on Computer and Information Sciences (ISCIS), Northern Cyprus, 2009.

Hasim Sak, Tunga Gungor and Murat Saraclar. A Stochastic Finite-State Morphological Parser for Turkish. In Proceedings of ACL-IJCNLP, Singapore, 2009.
Dogan Can, Erica Cooper, Arnab Ghoshal, Martin Jansche, Sanjeev Khudanpur, Bhuvana Ramabhadran, Michael Riley, Murat Saraclar, Abhinav Sethy, Morgan Ulinski, Christopher White. Web derived Pronunciations for Spoken Term Detection. In Proceedings of Association for Computing Machinery's Special Interest Group on Information Retrieval Conference (ACM-SIGIR), Boston, MA, USA, 2009.
Siddika Parlak and Murat Saraclar. Spoken Information Retrieval for Turkish Broadcast News. In Proceedings of Association for Computing Machinery's Special Interest Group on Information Retrieval Conference (ACM-SIGIR), Boston, MA, USA, 2009.
Pinar Santemiz, Oya Aran, Murat Saraclar, Lale Akarun. Extraction of Isolated Signs from Sign Language Videos via Multiple Sequence Alignment. In Proceedings of the 13th International Conference on Speech and Computer (SPECOM&#8217;09), St.Petersburg, Russia, 2009.
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Dogan Can and Murat Saraclar. Score Distribution Based Term Specific Thresholding for Spoken Term Detection. In Proceedings of North American Chapter of the Association for Computational Linguistics - Human Language Technologies Conference (NAACL-HLT), Boulder, CO, USA, 2009.
S. Yıldırım ve M. Saraçlar. Negatif Olmayan Matris Ayırışımı ile Tek Kanaldan Müzik ve Konuşma Ayırma. IEEE 17. Sinyal İşleme ve İletişim Uygulamaları Konferansı (SİU), Side, Antalya, Türkiye, 2009.
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E. Arısoy ve M. Saraçlar. Türkçe GDSKT için Konuşma Tanıma Hatalarının Analizi. IEEE 17. Sinyal İşleme ve İletişim Uygulamaları Konferansı (SİU), Side, Antalya, Türkiye, 2009.
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Ebru Arısoy, Hasim Sak and Murat Saraclar. Language Modeling for Automatic Turkish Broadcast News Transcription. In Proceedings of Interspeech-Eurospeech, Antwerp, Belgium, 2007.
İsmail Uzun, Ebru Arısoy, Rifat Edizkan ve Murat Saraçlar. Dağıtık Yapıda Türkçe Sürekli Konuşma Tanıma Sisteminde Seyrek Paket Kayıplarının Analizi ve Telafisi. IEEE 15. Sinyal İşleme ve İletişim Uygulamaları Konferansı (SİU). Eskişehir, Türkiye, 2007.
Çağdaş Kayra Akman ve Murat Saraçlar. Bilgisayar Destekli Yazılandırma İçin Dil Modelleme. IEEE 15. Sinyal İşleme ve İletişim Uygulamaları Konferansı (SİU). Eskişehir, Türkiye, 2007.
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M. Creutz, T. Hirsimäki, M. Kurimo, A. Puurula, J. Pylkkönen, V. Siivola, M. Varjokallio, E. Arısoy, M. Saraclar, and A. Stolcke. Analysis of Morph-Based Speech Recognition and the Modeling of Out-of-Vocabulary Words Across Languages. In Proceedings of Human Language Technologies / The Annual Conference of the North American Chapter of the Association for Computational Linguistics (HLT-NAACL 2007), Rochester, NY, USA, 2007.
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Ebru Arısoy ve M. Saraçlar. Geniş Dağarcıklı Konuşma Tanıma Sistemleri için Örünün Yeniden Değerlendirilmesi Tabanlı Dil Modellemesi Yaklaşımları. IEEE 14. Sinyal İşleme ve İletişim Uygulamaları Konferansı (SİU). Antalya, Türkiye, 2006.
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M. Kurimo, M. Creutz, M. Varjokallio, E. Arisoy, and M. Saraclar. Unsupervised segmentation of words into morphemes -- Morpho Challenge 2005: Application to Automatic Speech Recognition. In Proceedings of the International Conference on Spoken Language Processing - Interspeech2006 (ICSLP), Pittsburgh PA, USA, 2006.

M. Kurimo, A. Puurula, E. Arisoy, V. Siivola, T. Hirsimaki, J. Pylkkonen, T. Aluma, and M. Saraclar. Unlimited vocabulary speech recognition for agglutinative languages. In Proceedings of the Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics (HLT-NAACL), New York, USA, 2006.

E. Fosler, M. Weintraub, S. Wegmann, Y.H. Kao, S. Khudanpur, C. Galles, and M. Saraclar. Automatic learning of word pronunciation from data. In Proceedings of the International Conference on Spoken Language Processing (ICSLP), Philadelphia, PA, 1996.

W. Byrne, M. Finke, S. Khudanpur, J. McDonough, H. Nock, M. Riley, M. Saraclar, C. Wooters, and G. Zavaliagkos. Pronunciation modelling for conversational speech recognition: A status report from WS97. In Proceedings of the IEEE Automatic Speech Recognition and Understanding Workshop (ASRU), Santa Barbara, CA, 1997.

M. Riley, W. Byrne, M. Finke, S. Khudanpur, A. Ljolje, J. McDonough, H. Nock, M. Saraclar, C. Wooters, and G. Zavaliagkos. Stochastic pronunciation modeling from hand-labeled phonetic corpora. In Proceedings of the Workshop on Modeling Pronunciation Variation for Automatic Speech Recognition, Rolduc, The Netherlands, 1998.

W. Byrne, M. Finke, S. Khudanpur, J. McDonough, H. Nock, M. Riley, M. Saraclar, C. Wooters, and G. Zavaliagkos. Pronunciation modelling using a hand-labelled corpus for conversational speech recognition. In Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Seattle, WA, 1998.

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L. Begeja, D. Gibbon, Z. Liu, B. Renger, M. Saraclar, and B. Shahraray. A system for searching and browsing spoken communications. In Proceedings of the HLT-NAACL Workshop on Interdisciplinary Approaches to Speech Indexing and Retrieval, Boston, 2004.

C. Allauzen, M. Mohri, and M. Saraclar. General indexation of weighted automata &#8211; application to spoken utterance retrieval. In Proceedings of the HLT-NAACL Workshop on Interdisciplinary Approaches to Speech Indexing and Retrieval, Boston, 2004.

M. Bacchiani, B. Roark, and M. Saraclar. Language model adaptation with MAP estimation and the perceptron algorithm. In Proceedings of the Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics (HLT-NAACL), Boston, 2004.

M. Saraclar and R. Sproat. Lattice-based search for spoken utterance retrieval. In Proceedings of the Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics (HLT-NAACL), Boston, USA, 2004.

A. Yazgan and M. Saraclar. Hybrid language models for out of vocabulary word detection in large vocabulary conversational speech recognition. In Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Montreal, Canada, 2004.

B. Roark, M. Saraclar, and M. Collins. Corrective language modeling for large vocabulary ASR with the perceptron algorithm. In Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Montreal, Canada, 2004.

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A. Ljolje, V. Goffin, and M. Saraclar. Low Latency Real-Time Vocal Tract Length Normalization. In Proceedings of the 7th International Conference on Text, Speech and Dialogue (TSD), Brno, Czech Republic, 2004.

E. Bocchieri, M. Riley, and M. Saraclar. Methods for task adaptation of acoustic models with limited transcribed in-domain data. In Proceedings of the International Conference on Spoken Language Processing (ICSLP), Jeju Island, South Korea, 2004.

V. Goffin, C. Allauzen, E. Bocchieri, D. Hakkani-Tür, A. Ljolje, S. Parthasarathy, M. Rahim, G. Riccardi, and M. Saraclar. The AT&T WATSON Speech Recognizer. In Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Philadelphia, USA, 2005.

M. Saraclar and B. Roark. Joint discriminative language modeling and utterance classification. In Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Philadelphia, USA, 2005.

M. Collins, B. Roark, and M. Saraclar. Discriminative Syntactic Language Modeling for Speech Recognition. In Proceedings of the 43rd Annual Meeting of the Association for Computational Linguistics, Ann Arbor, Michigan, USA, 2005.

J. Feng, S. Reddy, and M. Saraclar. WebTalk: Mining Websites for Interactively Answering Questions. To appear in Proceedings of the 9th European Conference on Speech Communication and Technology (Interspeech 2005 - Eurospeech), Lisbon, Portugal, 2005.

#### **Diğer yayımlar**

E. Arısoy, M. Kurimo, M. Saraçlar, T. Hirsimäki, J. Pylkkönen, T. Alumäe and H. Sak. Statistical Language Modeling for Automatic Speech Recognition of Agglutinative Languages. Speech Recognition: Technologies and Applications, eds. F. Mihelic and J. Zibert, 193-204, I-Tech Education and Publishing, Vienna, Austria, 2008.

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