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Work Experience

- 1998–current - *Bogazici University - Istanbul* - Professor
- 2005-current - *Sestek Speech Tech. Inc. - Istanbul* - Founder and R&D Director
- 2000-2007 - *GVZ Speech Tech. Inc. - Istanbul* - Technical Consultant
- 2000-2001 - *TUBITAK - Istanbul* - Technical Consultant
- 1998-2000 - *Sakhr Software Co. - Cairo, Egypt* - Technical Consultant
- 1996-1998 - *Entropic Research Lab. - Washington, DC, USA* - Member of Technical Staff
- 1994–1996 - *Texas Instruments - Dallas, TX, USA* - Research Engineer
- 1991–1996 - *Duke University - Durham, USA* - Research Assistant

Education

- 1993-1996 *Ph.D. degree* - Duke University - Durham, USA
- 1991-1993 *M.S. degree* - Duke University - Durham, USA
- 1986-1991 *B.S degree* - Bogazici University - Istanbul, TURKEY
- 1984-1986 *High School Dipl.* - Fen Lisesi - Ankara, TURKEY

Courses Taught

1. Introduction to Electric Circuits
2. Introduction to Digital Signal Processing
3. Speech Processing
4. Psychoacoustics
5. Advanced Speech Processing
6. Adaptive Filter Theory
7. Signals and Systems
8. Computer Tools for EE

Patents

1. Patent (2019, USPTO, 14/924,733): Speech recognition analysis and evaluation system and method using monotony and hesitation of successful conversations according to customer satisfaction
2. Patent (2018, USPTO, 15/145,771): Method for Speaker Diarization
3. Patent (2017, USPTO, 15/069,966): Dialog Management System
4. Patent (2017, USPTO, 14/919,750): Speaker Verification Based On Acoustic Behavioral Characteristics Of The Speaker
5. Patent (2017, USPTO, 14/759,201): Speech Analytics System and Methodology with Accurate Statistics
6. Patent (2017, TPE, 2014/12527): Bir standart dışı konuşma tespit sistem ve yöntemi
7. Patent (2016, USPTO, 14/408,468): A method enabling verification of the user ID by means of an interactive voice response system
8. L.M. Arslan, A.S. Karadayi, "Method Enabling the verification of User ID by means of an interactive voice response system", Sestek, Tescil no: 9,462,134, 4 October, 2016.
9. A. Haznedaroglu, L.M. Arslan, O. Buyuk, "Ses kayıtlarında anahtar kelime yakalayan cihaz", Sestek, Tescil no: 2007 03727, 22 Ağustos, 2011.

10. L.M. Arslan, "Ses teknolojileri ile entegre otomatik sesli duyuru sistemi", Sestek, Tescil no: 2009 02660, 23 Ocak 2012.
11. L.M. Arslan, "Operatör destekli ses tanıma metodu", Sestek, Tescil no: 2009 00654, 22 Ağustos, 2011.
12. L. M. Arslan, "Otomatik dikte sistemlerinde konuşma sentezi ile teyit yöntemi ve bu yöntemin uygulanması için sistem", Sestek, Başvuru tarihi: 22 Temmuz 2010.
13. Türk, O., L. M. Arslan, and F. Deutsch. "Codebook-less Speech Conversion Method and System", Voxonic Inc., Patent Publication No.: US 2007/0213987, Publication Date: Sep. 13, 2007.
14. Türk, O., L. M. Arslan, and F. Deutsch. "Automatic Donor Ranking and Selection System and Method for Voice Conversion", Voxonic Inc., Patent Publication No.: US 2007/0027687, Publication Date: Feb. 1, 2007.
15. L.M. Arslan, and D. Talkin. "Stimmumwandlung", Microsoft Corporation, Issued September 2, 2003. Patent No: AT 6,615,174.
16. L.M. Arslan, and D. Talkin. "Voice Conversion System and Methodology", Microsoft Corporation, Issued September 2, 2003. Patent No: US 6,615,174.
17. L.M. Arslan, and D. Talkin. "Face Synthesis System and Methodology", Microsoft Corporation, Issued September 10, 2002. Patent No: US 6,449,595.
18. L.M. Arslan, A.V. Mccree, and V.R. Viswanathan. "Adaptive Weiner filtering using line spectral frequencies", Texas Instruments Inc., Issued July 17, 2001. Patent No: US 6,263,307.
19. L.M. Arslan, L.P. Netsch, and P.K. Rajasekaran. "Method of out of vocabulary word rejection", Texas Instruments Inc., Issued June 5, 2001. Patent No: US 6,243,677.
20. L.M. Arslan, and D. Talkin. "Face Synthesis System and Methodology", Entropic Research Inc., Issued September 16, 1999. Patent No: WO 9,946,734.
21. L.M. Arslan, and D. Talkin. "Voice Conversion System and Methodology", Entropic Research Inc., Issued August 13, 1998. Patent No: WO 9,835,340.
22. L.M. Arslan, A.V. Mccree, and V.R. Viswanathan. "Adaptive Weiner filtering using a dynamic suppression factor", Texas Instruments Inc., Issued Jan 6, 1998. Patent No: US 5,706,395.

Journal Publications

1. O. Buyuk, L.M. Arslan, "Combination of long-term and short-term features for age identification from voice", Advances in Electrical and Computer Engineering 18 (2), pp. 101-108, 2018.

2. C. Kasap, M.L. Arslan, "A unified approach to speech enhancement and voice activity detection", Turkish Journal of Electrical Engineering and Computer Sciences, vol. 21, pp. 527-547, 2013.
3. O. Buyuk, L. M. Arslan, "Combining log-spectral mean subtraction at different frequency resolutions for handset-channel compensation in single utterance speaker verification", IET Signal Processing, Vol. 6, Issue: 9, pp. 824-828, 2012.
4. O. Buyuk, M. L. Arslan, "Model selection and score normalization for text dependent single utterance speaker verification", Turkish Journal of Electrical Engineering and Computer Sciences, vol. 20, pp. 1277-1295, 2012.
5. O. Turk and L.M. Arslan, "Automatic Source Speaker Selection for Voice Conversion", Journal of the Acoust. Soc. of America, Vol. 125, Issue 1, pp. 480-491, 2009.
6. Gürel, A., L.M. Arslan, "Konuşma tanıma için insan-makine karşılaştırılması", Dilbilim Araştırmaları Dergisi, 77-90, 2008.
7. A. Savran, L.M. Arslan and L. Akarun, "Speaker Independent 3D Face Synthesis driven by Speech and Text", Signal Processing, 86 (10): 2932-2951, 2006.
8. E. Arisoy, H. Dutağacı, and L.M. Arslan, "A unified language model for large vocabulary continuous speech recognition of Turkish", Signal Processing, 86 (10): 2844-2862, 2006.
9. O. Turk, and L.M. Arslan. "Robust Processing Techniques for Voice Conversion", Computer Speech and Language, 20 (4): 441-467, 2006.
10. L.M. Arslan. "Modified Wiener Filtering", Signal Processing, vol. 86, pp. 267-272, 2006.
11. E. Arisoy, and L.M. Arslan. "A Universal Human Machine Speech Interaction Language for Robust Speech Recognition Applications", Lecture Notes in Computer Science, vol. 3206, pp. 261-267, 2004 (after TSD conference)
12. O.D. Orman and L.M. Arslan. "Comparison of Frequency Bands in Closed Set Speaker Identification Performance", Lecture Notes in Artificial Intelligence, vol. 1902, pp. 314-318, 2000 (after TSD conference)
13. L.M. Arslan and D. Talkin. "Codebook Based Face Point Trajectory Synthesis Algorithm using Speech Input", Speech Communication Journal, vol. 27, no. 2, pp. 81-93, March 1999.
14. L.M. Arslan "Speaker Transformation Algorithm using Segmental Codebooks (STASC)", Speech Communication Journal, vol. 28, pp. 211-226, June 1999.
15. L.M. Arslan and J.H.L. Hansen "Selective Training for Hidden Markov Model Recognition", IEEE Trans. on Speech and Audio Processing, vol.7, No.1, pp. 46-55, January 1999.
16. L.M. Arslan and J.H.L. Hansen "Likelihood Decision Boundary Estimation Between HMM Pairs in Speech Recognition", IEEE Trans. on Speech and Audio Processing, vol. 6, no. 4, July 1998.

17. L.M. Arslan and J.H.L. Hansen "A Study of Temporal Features and Frequency Characteristics in American English Foreign Accent", Journal of Acoust. Soc. of America, vol. 102, no. 1, pp. 28-40, July 1997. [Featured paper].
18. L.M. Arslan and J.H.L. Hansen "Speech Enhancement for Cross-Talk Interference", IEEE Signal Processing Letters, vol. 4, no. 4, pp. 92-95, April 1997.
19. L.M. Arslan and J.H.L. Hansen "Language Accent Classification in American English", Speech Communication Journal, vol. 18, no. 4, pp. 353-367, August 1996.
20. J.H.L. Hansen and L.M. Arslan "Robust Feature-Estimation and Objective Quality Assessment for Noisy Speech Recognition using the Credit Card Corpus", IEEE Trans. on Speech and Audio Processing, vol. 3, number 3, pp. 169-184, May 1995.
21. J.H.L. Hansen and L.M. Arslan "Markov Model Based Phoneme Class Partitioning for Improved Constrained Iterative Speech Enhancement", IEEE Trans. on Speech and Audio Processing, vol. 3, no. 1, pp. 98-104, January 1995.

Conference Proceedings

1. Can Korkut, Ali Haznedaroğlu, Levent Arslan, "Comparison of Deep Learning Methods for Spoken Language Identification", SPECOM, 2020
2. Can Korkut, Ali Haznedaroğlu, Levent Arslan, "Spoken Language Identification with Deep Convolutional Neural Network and Data Augmentation", IEEE Signal Processing and Communication Applications Conference, October 2020 (SIU 2020), Gaziantep, Turkey
3. Can Deveci, Mustafa Erden, Sedat Demirbağ, Levent Arslan, "Query Intent Classification with Short Sentences in Agglutinative Language", IEEE Signal Processing and Communication Applications Conference, October 2020 (SIU 2020), Gaziantep, Turkey
4. Özgün Karagöz, Şamil Güser, Mustafa Erden, Levent Arslan, "Derin Yapay Sinir Ağları ile Sesten Cinsiyet Tanıma", IEEE Signal Processing and Communication Applications Conference, October 2020 (SIU 2020), Gaziantep, Turkey
5. Sedat Demirbağ, Mustafa Erden, Levent Arslan, "End-To-End Phonetic Neural Network Approach for Speaker Verification", IEEE Signal Processing and Communication Applications Conference, October 2020 (SIU 2020), Gaziantep, Turkey
6. Osman Büyük, Mustafa Erden, Levent Arslan, "Diziden Diziye Türkçe Yazım Hatası Düzeltmede Bağlamın Etkisi", IEEE Signal Processing and Communication Applications Conference, April 2019 (SIU 2019), Sivas, Turkey,

7. Abdullah Şamil Güser, Mustafa Erden, Mustafa Levent Arslan, "Semi-Automatic Formatting of Spelled Out Numbers", IEEE Signal Processing and Communication Applications Conference, April 2019 (SIU 2019), Sivas, Turkey,
8. Berk Özlan, Ali Haznedaroğlu, Mustafa Levent Arslan, "Automatic Fraud Detection In Call Center Conversations", IEEE Signal Processing and Communication Applications Conference, April 2019 (SIU 2019), Sivas, Turkey,
9. Osman Buyuk, Levent M. Arslan, "Age identification from voice using deep neural networks", IEEE Signal Processing and Communication Applications Conference, May 2018 (SIU 2018), İzmir, Turkey.
10. Behnam Asefisaray, Ali Haznedaroğlu, Mustafa Erden, L.M. Arslan, "Transfer Learning for Automatic Speech Recognition Systems", IEEE Signal Processing and Communication Applications Conference, May 2018 (SIU 2018), İzmir, Turkey.
11. Arslan, Levent; Sarar, Gokce; Demirbag, Sedat; et al., "Probability Mass Function Distance Approach for Fast Speaker Diarization", IEEE Signal Processing and Communication Applications Conference, May 2017 (SIU 2017), Antalya, Turkey.
12. Osman Buyuk, Levent M. Arslan, "Combining spectral and prosodic features in HMM-based single utterance speaker verification", International Conference on Bio-Inspired Systems and Signal Processing, January 2015 (BIOSIGNALS 2015), Lisbon, Portugal.
13. Ali Haznedaroğlu, L.M. Arslan, "Language Model Adaptation For Automatic Call Transcription", 39th IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP 2014
14. Mustafa Erden, Mehmet Emin Erük, Gökhan Şevkin, Mert Yücel Bayram, Mert Büyüktuncay, Ali Haznedaroğlu, Levent M. Arslan, "İngilizce Telaffuz Değerlendirme için Tablet Uygulaması", IEEE 22. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, SIU 2014
15. L.M. Arslan, "Voice Biometrics", Euroforensics 2012, İstanbul, Turkey.
16. M. Erden, A. Haznedaroğlu, L.M. Arslan, "Meditalk ve Justtalk Turkish Automatic Dictation Systems", IEEE 19th Signal Processing and Communications Applications Conference, SIU-2011, 20-22 April 2011, Antalya, Turkey (Demo oturumu bildirisi).
17. M. Erden, L.M. Arslan, "Automatic Detection of Anger in Human-Human Call Center Dialogs", 12th Annual Conference of the International Speech Communication Association, InterSpeech 2011, 27-31 August 2011, Florence, Italy.
18. A. Haznedaroğlu, L.M. Arslan, "Confidence Measures for Turkish Call Center Conversations", 12th Annual Conference of the International Speech Communication Association, InterSpeech 2011, 27-31 August 2011, Florence, Italy.
19. O. Buyuk, L.M. Arslan, "SMM Tabanlı Mimaride Telefon-Kanal Tanıma İle Metne Bağımlı

Konuřmacı Tanıma”, SIU 2010, Diyarbakır, Turkey.

20. A. Haznedarođlu, L.M. Arslan, “Çađrı Merkezi Görüřmelerine Yönelik Türkçe Geniř Dađarcıklı Sürekli Konuřma Tanıma Sistemi”, SIU 2010, Diyarbakır, Turkey.
21. O. Turk, O. Buyuk, A. Haznedaroglu, L.M. Arslan, “Application of Voice Conversion for Cross-Language Rap Singing Transformation”, IEEE Proc. ICASSP, Taiwan, 2009.
22. A. Haznedaroglu, O. Buyuk, L. M. Arslan, “Kelimeye Uyarlı Dil Modeli ile Anahtar Kelime Yakalama”, SIU 2007, Eskisehir, Turkey
23. O. Buyuk, A. Haznedaroglu, L. M. Arslan, “Dil Modeli Uyarlanabilir Türkçe Ses Tanıma Yazılımı”, SIU 2007, Eskisehir, Turkey
24. F. Burkhardt, N. Audibert, L. Malatesta, O. Turk, L.M. Arslan, V. Auberger, “Does Culture Makes A Difference?”, Speech Prosody 2006 Conference, Dresden.
25. O. Turk and L.M. Arslan “Software Tools for Speech Therapy and Voice Quality Monitoring”, 13th European Signal Processing Conference - EUSIPCO 2005, Antalya, Turkey.
26. E. Arisoy and L.M. Arslan "Turkish Dictation System for Broadcast News Applications", 13th European Signal Processing Conference - EUSIPCO 2005, Antalya, Turkey
27. O. Turk and L.M. Arslan “Donor Selection for Voice Conversion”, 13th European Signal Processing Conference - EUSIPCO 2005, Antalya, Turkey
28. O. Turk, M. Schröder, B. Bozkurt, and L.M. Arslan “Voice Quality Interpolation for Emotional Text-To-Speech Synthesis”, INTERSPEECH 2005, Lisbon, Portugal.
29. E. Arisoy and L.M. Arslan, “Türkçe Gazete Haberleri Dikte Sistemi”, SIU 2005, Kayseri, Turkey.
30. A. Savran and L.M. Arslan “Speech Driven MPEG-4 Facial Animation for Turkish”, SPECOM 2004, St. Petersburg, Russia.
31. O. Turk, and L.M. Arslan, 2004, “Pronunciation Scoring for the Hearing-Impaired”, 9th International Conference Speech and Computer - SPECOM 2004, St. Petersburg, Russia.
32. E. Arisoy, L.M. Arslan, M.N. Demiralp, H.K. Ekenel, M. Kelepir, H.M. Meral, A.S. Özsoy, Ö. Şayli, O. Turk, B.C. Yolcu, “Acoustic Analysis of Turkish Sounds”, 12th International Conference on Turkish Linguistics, 11-13 August 2004, Izmir, Turkey.
33. E. Arisoy and L.M. Arslan “Turkish Radiology Dictation System”, SPECOM 2004, St. Petersburg, Russia.
34. O. Turk, O. Sayli, A.S. Ozsoy, and L.M. Arslan “Türkçe'de Ünlülerin Formant Frekans İncelemesi”, 18. Ulusal Dilbilim Kurultayı 2004, Ankara, Turkey.

35. O. Turk and L.M. Arslan "Dayanıklı Konuşmacı Dönüştürme Yöntemleri", SIU 2004, Kusadasi, Turkey.
36. O. Turk and L.M. Arslan "Konuşma Terapisine Yönelik Konuşma Tanıma Yöntemleri", SIU 2004, Kusadasi, Turkey.
37. O. Turk and L.M. Arslan "Voice conversion methods for vocal tract and pitch contour modification", EUROSPEECH 2003, Geneva, Switzerland, 2003.
38. O. Turk and L.M. Arslan "Subjective Evaluations for Perception of Speaker Identity Through Acoustic Feature ", EUROSPEECH 2003, Geneva, Switzerland, 2003.
39. U. Naci and L.M. Arslan "Self score normalization and frame pruning techniques for speaker verification", ICANN-ICONIP 2003, Istanbul, Turkey.
40. O. Turk and L.M. Arslan "Konuşmacı dönüştürme için üç yeni yöntem", SIU 2003, 398-401, İstanbul, 2003.
41. O. Turk and L.M. Arslan "Konuşmacı kimliği algılanmasında akustik özniteliklerin karşılaştırmalı analizi", SIU 2003, 394-397, İstanbul, 2003.
42. O. Turk, O. Sayli, H. Dutagaci and L.M. Arslan "A Sound Source Classification System Based On Subband Processing" in Proceedings of the 3rd IEEE Benelux Signal Processing Symposium (SPS-2002), Leuven, Belgium, Mar. 2002, pp. 61-64.
43. O. Turk, O. Sayli, H. Dutagaci and L.M. Arslan "A Sound Source Classification System Based On Subband Processing" in Proceedings of the 7th International Conference On Spoken Language Processing (ICSLP-2002), Denver, Colorado, USA, Sep. 2002, pp. 641-644.
44. O. Turk, O. Sayli, H. Dutagaci and L.M. Arslan "Alt Bant İşlemeye Dayalı Bir Ses Sınıflandırma Sistemi", 2002 Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-2002), Denizli, Türkiye, pp. 58-63.
45. H. Dutagaci and L.M. Arslan "Türkçe Konuşma Tanıma için İstatistiksel Dil Modelleri", 2002 Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-2002), Denizli, Türkiye, pp. 64-69.
46. L.M. Arslan and A. Koç "Gürültülü Ortamlara Dayanıklı Türkçe Sözcük Tanıma", 2002 Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-2002), Denizli, Türkiye, pp. 70-75.
47. D. Genççağa, L.M. Arslan and A.B. Ertüzün "Konuşma İşaretleri için Gerçek Zamanlı bir Formant Frekans Kestiricisi", 2002 Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-2002), Denizli, Türkiye, pp. 471-475.
48. H.K. Ekenel and L.M. Arslan "Türkçe Ses Sentezi için Ezgi Modelleri", 2002 Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-2002), Denizli, Türkiye, pp. 824-829.
49. M.U. Doğan and L.M. Arslan "TÜBİTAK-TURTEL Ses Tabanının Ayrık Kelime Tanıma

Başarımının Konuşmacı Bazlı Değerlendirilmesi”, 2002 Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-2002), Denizli, Türkiye, pp. 830-835.

50. O. Şayli, L.M. Arslan and S. Özsoy “Türkçe Ses Sentezi için Süre Modellemesi”, 2002 Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-2002), Denizli, Türkiye, pp. 841-845.
51. O. Şayli, L.M. Arslan and A.S. Özsoy “Duration Properties of the Turkish Phonemes,” International Conference on Turkish Linguistics, August 7-9, 2002.
52. O. Turk and L.M. Arslan “Subband Based Voice Conversion” in Proceedings of the 7th International Conference On Spoken Language Processing (ICSLP-2002), Denver, Colorado, USA, Sep. 2002, pp. 289-292.
53. H. Dutagaci and L.M. Arslan “Comparison of Statistical Language Models for Turkish Speech Recognition” in Proceedings of the 7th International Conference On Spoken Language Processing (ICSLP-2002), Denver, Colorado, USA, Sep. 2002, pp. 729-732.
54. O. Orman and L.M. Arslan “Konuşmacı Tanımayı İnceleyen Yeni Bir Dinleyici Sınaması”, SIU Proc., pp. 116-121, G.Magosa, April 2001.
55. E. Ormanci, U.H. Nikbay, O. Turk and L.M. Arslan “Subjective Assessment Of Frequency Bands For Perception Of Speaker Identity” in Proceedings of the 7th International Conference On Spoken Language Processing (ICSLP-2002), Denver, Colorado, USA, Sep. 2002, pp. 2581-2584.
56. H. Ozer and L.M. Arslan “LPC İzge Düzgünlüğü ile Konuşma Aktivitesi Tespiti”, SIU Proc., pp. 233-237 G.Magosa, April 2001.
57. U. Yapanel, M.U. Dogan and L.M. Arslan “Türkçe Anahtar Sözcük Yakalama Sistemi için farklı Atık Modellerinin Karşılaştırılması”, SIU Proc., pp. 122-127, G.Magosa, April 2001.
58. O. Orman and L.M. Arslan “Frequency Analysis of Speaker Identification”, A Speaker Odyssey: The Speaker Recognition Workshop, pp. 219-222 Crete, Greece, 2001.
59. V. Çal, H. Deliç and L. Arslan, “Reliable Transmission of LPC Speech-Coded over Fading Channels”, Proceedings of the International Symposium on Telecommunications, pp. 430-433, Tehran, Iran, September 2001.
60. V. Çal, L. Arslan, and H. Deliç “ Error Control for LPC-Coded Speech”, International Conference on Signal Processing Applications and Technology, Dallas, USA, October 2000.
61. L.M. Arslan “A new universal language for Speech Recognition Applications”, IEEE Proc. ICASSP, Istanbul, Turkey, May 2000, pp. 3747-3750.
62. O. Orman and L.M. Arslan “ Tümlşik Gauss Modeller ve Vektör Nicemleme Yöntemleriyle Konuşmacı Tanıma”, Proc. SIU, Antalya, May 2000.
63. O. Orman and L.M. Arslan “ A Comparative Study on Closed Set Speaker Identification Using

RBF Network and Modular Networks”, Proc. TAINN, p. 291-296, Izmir, Turkey, June 2000.

64. L.M. Arslan “Türkçe Sürekli Konuşma Tanıma Sisteminin Sayı Tanıma Uygulaması”, Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-1999), Ankara, Türkiye, pp. 64-67.
65. L.M. Arslan “Konuşma Tanıma ve Konuşma Sentezi Uygulamalarında en Uygun Fonetik Dizgenin Otomatik Seçimi”, Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU-1999), Denizli, Türkiye, pp. 539-542.
66. F. M. Galanes, J. Unverferth, L.M. Arslan and D. Talkin “Generation of lip-synched synthetic faces from phonetically clustered face movement data”, AVSP Proceedings, pp. 191-194. Terrigal, Australia, December 1998.
67. L.M. Arslan and D. Talkin “3-D Face Point Trajectory Synthesis using an Automatically derived Visual Phoneme Similarity matrix”, AVSP Proceedings, pp. 175-180. Terrigal, Australia, December 1998.
68. L.M. Arslan and D. Talkin “Speech Driven 3-D Face Point Trajectory Synthesis Algorithm”, ICSLP Proceedings, Sydney, Australia, 1998.
69. L.M. Arslan and D. Talkin. “Speaker Transformation using Sentence HMM based alignments and detailed prosody modification”, IEEE Proc. ICASSP, Seattle, USA, May 1998, pp 289-292.
70. L.M. Arslan and D. Talkin. “Voice Conversion by Segmental Codebook Mapping of Line Spectral Frequencies and Excitation Spectrum”, EUROSPEECH Proceedings, vol. 3, pp. 1347-1350, Rhodes Greece, September 1997.
71. L.M. Arslan and J.H.L. Hansen. “A Study of Frequency Characteristics in Foreign Accent”, IEEE Proc. ICASSP, vol. 2, pp. 1123-1126, Munich, Germany, April 1997.
72. L.M. Arslan and J.H.L. Hansen. “Improved HMM Training and Scoring Strategies”, IEEE Proc. ICASSP, vol. 2, pp. 589-592, Atlanta, USA, May 1996.
73. L. Arslan, A. Mccree, and V. Viswanathan. “New Methods for Adaptive Noise Suppression”, IEEE Proc. ICASSP, vol. 1, pp. 812-815, Detroit, USA, May 1995.
74. J.H.L. Hansen and L.M. Arslan. “Foreign Accent Classification using Source Generator Based Prosodic Features”, IEEE Proc. ICASSP, vol. 1, pp. 836-839, Detroit, USA, May 1995.
75. L.M. Arslan and J.H.L. Hansen. “A Minimum Cost Based Phoneme Class Detector for Improved Iterative Speech Enhancement”, IEEE Proc. ICASSP, vol. 2, pp. 045-048, Adelaide, South Australia, April 1994.
76. J.H.L. Hansen, B.D. Womack, L.M. Arslan. “A Source Generator Based Production Model for Environmental Robustness in Speech Recognition”, ICSLP Proceedings, vol. 3, pp 1003-1006, Yokohama, Japan, 1994.

Conference Presentations

1. L.M. Arslan "Voice Biometrics", Keynote Speech, ASYU 2012, Trabzon, Turkey.
2. L.M. Arslan "Challenges in Speech Analytics, SpeechTek Conference, New York, 2012.
3. L.M. Arslan "Mühendislikte İnovasyon", Mükemmelliği Arayış Sempozyumu, KALDER, 2012.

Technical Notes

1. O. Sayli, L.M. Arslan "Türkçedeki seslerin süre özellikleri", DilBilim Araştırmaları, Boğaziçi Üniversitesi Yayınevi, İstanbul, 2003.
2. Ü. Yapanel, L.M. Arslan "Türkçe için Konuşma Tanıma Uygulamaları", Elektrik-Elektronik Dergisi, No:8, September 1999.

PhD Theses Supervised

1. "Telephone based Text dependent Speaker Verification", Osman Büyük, 2011
2. "Cross-Lingual Voice Conversion", Oytun Türk, 2007.

MS Theses Supervised

1. "Fusing Acoustic and Linguistic Parameters for Multilingual Emotion Recognition", Mustafa Erden, 2011
2. "Voice Conversion for Reconstruction of Dysphonic Speech", Gönenç Tarakcioğlu, 2010
3. "A Unified Approach to Speech Enhancement and Voice Activity Detection", Ceyhan Kasap, 2009.
4. "Domain Specific Keyword Spotting", Ali Haznedaroğlu, 2007
5. "Improved Handling of SMS Messages with Statistical Natural Language Processing Techniques", Ömer Yıldırım, 2005 (Co-supervisor)

6. "Speech and Text Driven 3-D Face Synthesis for the Hearing Impaired", Arman Savran, 2004
7. "Turkish Dictation System for Radiology and Broadcast News Applications", Ebru Arisoy, 2004
8. "Self Score Normalization and Frame Pruning Techniques for Speaker Verification Systems", Suphi Umut Naci, 2003
9. "An Unsupervised Approach for Automatic Language Identification", Tuba İslam, 2003
10. "New Methods For Voice Conversion", M.S. Thesis, by Oytun Türk, 2003
11. "Statistical Language Models For Large Vocabulary Turkish Speech Recognition", Helin Dutağacı, 2002
12. "Duration Analysis And Modelling For Turkish Text-To-Speech Synthesis", Ömer Şayli, 2002
13. "Acoustic Feature Analysis For Robust Speech Recognition", Alpay Koç, 2002
14. "Fundamental Frequency Contour Synthesis for Turkish Text-to-Speech", Erkan Abdullahbeşe, 2001
15. "Keyword Spotting Using Hidden Markov Models", Şevket Duran, 2001
16. "Frequency Analysis of Speaker Identification Performance", Özgür Devrim Orman, 2000
17. "Garbage Modeling Techniques for a Turkish Keyword Spotting System", Ümit Yapanel, 2000

Projects Involved

1. European Union 6th Framework SIMILAR Network of Excellence Project (Total Budget: ~6.1 million Euros) 2003-2007
2. European Union 6th Framework BIOSECURE Network of Excellence Project (Total Budget: ~2 million Euros) 2004-2007,
3. Tübitak TEYDEB 3070164 Ses Teknolojileriyle Entegre Yeni Nesil Çağrı Merkezi, SESTEK A.Ş. (2007-2009) (Yönetici)
4. European Union EUREKA XML_FED 3050353 Yaşlılar ve Özürlüler için XML Teknolojisi Projesi, SESTEK A.Ş. (2006-2008)
5. European Union EUREKA ELDORO 9090036 - Electronic Doctor's round (2010-2013)

6. Tübitak TEYDEB 3100487 CEPTECÜMAN - Otomatik Sesli Mobil Tercüman Sistemi (2010-2011) (Yönetici)
7. Tübitak TEYDEB 3120704 Ameliyat Öncesi Sesin Elektronik ortamda sentezlenmesi (2012-2015)
8. Tübitak TEYDEB 3090871 Yazılı Yayınlar Telefonla Erişim Hattı, SESTEK A.Ş. (2010-2013) (Yönetici)
9. Tübitak TİDEB 3040394 Çağrı Merkezlerinde İnsan-Makine İletişim Sistemleri Tasarımı Projesi, SESTEK A.Ş. (2004-2006)
10. European Union EUREKA MAJORCALL Project, GVZ A.Ş. (2003-2005)
11. Tübitak TİDEB Türkçe Ses sentezi Sistemi için vurgu modellemesi, GVZ A.Ş. (2000-2003) (Yönetici)
12. Tübitak TİDEB 3020035 Dil Bağımsız Otomatik Konuşmacı Dönüştürme Sistemi Geliştirme Projesi, SESTEK A.Ş. (2002-2003)
13. Tübitak TİDEB 3040039 Konuşma Terapisi ve Otomatik Ses Kalitesi İzleme Yazılımı Projesi, SESTEK A.Ş. (2004-2006)

Citations

- 314 Web of Science citations
- 107 Citations from Patents
- 1472 Google Scholar Citations (various citations from on-line articles, theses, conference proceedings, etc.)

Awards and Honours

- Mustafa Parlar Technology Incentive Award, 2006
- TTGV Dr. Akın Çakmakçı Thesis Advisor Award, 2007
- Boğaziçi University, Academic Award
- Research Assistant Fellowship, Duke University (1991 - 1996)
- Prize for 22nd place in nationwide university entrance exam in Turkey (1986).
- Technical achievement award at Texas Instruments (1995).
- Fellowship, Sabanci Foundation, Turkey (1986 – 1991).
- Reviewer for IEEE Transactions on Speech and Audio Processing.
- Reviewer for Speech Communication Journal.

- Reviewer for Signal Processing
- Reviewer for IEEE Signal Processing Letters
- Reviewer for Journal of Acoustical Society of America
- Reviewer for Interspeech 2002, 2003, 2004, 2005, 2007
- Reviewer for SIU 2000-2009
- Reviewer for IEEE ICASSP 2005, 2007, 2008, 2009
- Reviewer for EUSIPCO 2005

Computer Skills

- Programming languages: C, C++, Pascal, FORTRAN, PROLOG, HTML, C-Shell, Tcl-Tk
- Software Packages: MATLAB, ESPS, WAVES, HTK
- Operating Systems: Unix, Linux, DOS, Windows

Interests

- Painting, playing the violin, tennis, soccer.