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International Researcher IDs

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Publons / Web Of Science ResearcherID: G-4701-2018

Yoksis Researcher ID: 132910

Education Information

Doctorate, Clemson University, Yabancı Diller Yüksekokulu, Electrical Engineering, United States Of America 1996 - 2001

Postgraduate, Clemson University, Yabancı Diller Yüksekokulu, Electrical Engineering, United States Of America 1994 - 1996

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 1982 - 1987

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Local Feature Extraction for Robust Speech Recognition in the presence of Noise, Clemson University, Faculty Of Engineering, Electrical Engineering, 2001

Research Areas

Information Systems, Communication and Control Engineering, Signal Processing, Speech Analysis and Processing Techniques, Signal Processing Theory and Methods, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2011 - Continues

Academic and Administrative Experience

Cukurova University, Mühendislik Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2013 - Continues

Advising Theses

TÜFEKÇİ Z., Noise Robust Speech Recognition Using Parallel Model Compensation and Voice Activity Detection Methods, Postgraduate, S.HIZLISOY(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Feature-based hybrid strategies for gradient descent optimization in end-to-end speech recognition**
Dokuz Y., TÜFEKÇİ Z.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.81, no.7, pp.9969-9988, 2022 (SCI-Expanded)
- II. **Mini-batch sample selection strategies for deep learning based speech recognition**
Dokuz Y., TÜFEKÇİ Z.
APPLIED ACOUSTICS, vol.171, 2021 (SCI-Expanded)
- III. **Scale-invariant MFCCs for speech/speaker recognition**
TÜFEKÇİ Z., Disken G.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.5, pp.3758-3762, 2019 (SCI-Expanded)
- IV. **A robust polynomial regression-based voice activity detector for speaker verification**
DISKEN G., TÜFEKÇİ Z., ÇEVİK U.
EURASIP JOURNAL ON AUDIO SPEECH AND MUSIC PROCESSING, 2017 (SCI-Expanded)
- V. **A Review on Feature Extraction for Speaker Recognition under Degraded Conditions**
DISKEN G., TÜFEKÇİ Z., SARIBULUT L., ÇEVİK U.
IETE TECHNICAL REVIEW, vol.34, no.3, pp.321-332, 2017 (SCI-Expanded)
- VI. **Speaker Model Clustering to Construct Background Models for Speaker Verification**
DISKEN G., TÜFEKÇİ Z., ÇEVİK U.
ARCHIVES OF ACOUSTICS, vol.42, no.1, pp.127-135, 2017 (SCI-Expanded)
- VII. **Convolutional bias removal based on normalizing the-filterbank spectral magnitude**
Tufekci Z.
IEEE SIGNAL PROCESSING LETTERS, vol.14, no.7, pp.485-488, 2007 (SCI-Expanded)
- VIII. **Applied mel-frequency discrete wavelet coefficients and parallel model compensation for noise-robust speech recognition**
Tufekci Z., Gowdy J. N., Gurbuz S., Patterson E.
SPEECH COMMUNICATION, vol.48, no.10, pp.1294-1307, 2006 (SCI-Expanded)
- IX. **Moving-talker, speaker-independent feature study, and baseline results using the WAVE Multimodal speech corpus**
Patterson E., Gurbuz S., Tufekci Z., Gowdy J.
EURASIP JOURNAL ON APPLIED SIGNAL PROCESSING, vol.2002, no.11, pp.1189-1201, 2002 (SCI-Expanded)
- X. **Affine-invariant visual features contain supplementary information to enhance speech recognition**
Gurbuz S., Patterson E., Tufekci Z., Gowdy J.
AUDIO- AND VIDEO-BASED BIOMETRIC PERSON AUTHENTICATION, PROCEEDINGS, vol.2091, pp.175-181, 2001 (SCI-Expanded)

Articles Published in Other Journals

- I. **Noise-Robust Spoofed Speech Detection Using Discriminative Autoencoder**
Dişken G., TÜFEKÇİ Z.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.19, no.2, pp.167-174, 2023 (Peer-Reviewed Journal)
- II. **A Review on Deep Learning Architectures for Speech Recognition**
DOKUZ Y., TÜFEKÇİ Z.
European Journal of Science and Technology, vol.2020, pp.169-176, 2020 (Peer-Reviewed Journal)
- III. **LSTM Hiperparametrelerinin Ses Tanıma Performansına olan Etkilerinin Araştırılması**

Refereed Congress / Symposium Publications in Proceedings

- I. **A Review on Deep Learning Architectures for Speech Recognition**
DOKUZ Y., TÜFEKÇİ Z.
International Conference On Access To Recent Advances In Engineering And Digitalization (ARACONF), Kayseri, Turkey, 5 - 07 March 2020, pp.68-69
- II. **Investigation of the Effect of LSTM Hyperparameters on Speech Recognition Performance**
DOKUZ Y., TÜFEKÇİ Z.
International Conference On Access To Recent Advances In Engineering And Digitalization (ARACONF), Kayseri, Turkey, 5 - 07 March 2020, pp.66-67
- III. **Real-Time Speaker Independent Isolated Word Recognition on Banana Pi**
Disken G., Saribulut L., TÜFEKÇİ Z., ÇEVİK U.
10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi, Romania, 28 - 30 June 2018
- IV. **NOISE ROBUST SPEECH RECOGNITION USING PARALLEL MODEL COMPENSATION AND VOICE ACTIVITY DETECTION METHODS**
HIZLISOY S., TÜFEKÇİ Z.
2016 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA 2016), Râ`S Al-Khaymah, United Arab Emirates, 6 - 08 December 2016, pp.1-4
- V. **Noise Robust Speech Recognition Using Parallel Model Compensation and Voice Activity Detection Methods**
HIZLISOY S., TÜFEKÇİ Z.
5th International Conference on Electronic Devices, Systems and Applications (ICEDSA), Ras al-Khaimah, United Arab Emirates, 6 - 08 December 2016
- VI. **Subband feature extraction using lapped orthogonal transform for speech recognition**
TÜFEKÇİ Z., Gowdy J.
IEEE International Conference on Acoustics, Speech, and Signal Processing, Salt Lake City, United States Of America, 7 - 11 May 2011, vol.1, pp.149-152
- VII. **Application of affine-invariant Fourier descriptors to lipreading for audio-visual speech recognition**
Gurbuz S., TÜFEKÇİ Z., Patterson E., Gowdy J.
IEEE International Conference on Acoustics, Speech, and Signal Processing, Salt Lake City, United States Of America, 7 - 11 May 2011, vol.1, pp.177-180
- VIII. **Noise Robust Speaker Verification Using Mel Frequency Discrete Wavelet Coefficients and Parallel Model Compensation**
TÜFEKÇİ Z., gurbuz s.
ICASSP 2005, 19 - 23 March 2005
- IX. **İYTE de Sinyal İşleme Eğitimi**
ALTINKAYA M. A., GÜMÜŞTEKİN Ş., TÜFEKÇİ Z., SAVACI F. A.
SIU 2003, Turkey, 18 - 22 June 2003
- X. **Multi Stream Product Modal Audio Visual Integration Strategy for Robust Adaptive Speech Recognition**
gurbuz s., patterson e., TÜFEKÇİ Z., gowdy j.
ICASSP 2002, 13 May 2002 - 17 May 2001
- XI. **CUAVE A New Audio Visual Database for Multimodal Human Computer Interface Research**
patterson e., gurbuz s., TÜFEKÇİ Z., gowdy j.
ICASSP, 13 - 17 May 2002
- XII. **Noise Based Audio Visual Fusion for Robust Speech Recognition**

patterson e., gurbuz s., TÜFEKÇİ Z., gowdy j.

AVSP-2001, 7 - 09 September 2001

- XIII. **Lip-Reading from Parametric Lip Contours for Audio-Visual Speech Recognition**
Gurbuz s., Patterson E., TÜFEKÇİ Z., Gowdy J.
European Conference on Speech Communication and Technology, Aalborg, Denmark, 3 - 07 September 2001, vol.1, pp.140-143
- XIV. **Applying Parallel Model Compensation with Mel-Frequency Discrete Wavelet Coefficients for Noise-Robust Speech Recognition**
TÜFEKÇİ Z., Gowdy J., Gurbuz S., Patterson E.
European Conference on Speech Communication and Technology, Aalborg, Denmark, 3 - 07 September 2001, vol.1, pp.120-123
- XV. **Independent Information from Visual Features for Multimodal Speech Recognition**
gurbuz s., TÜFEKÇİ Z., patterson e., gowdy j.
IEEE Southeastcon, 31 March - 01 April 2001
- XVI. **Mel-scaled discrete wavelet coefficients for speech recognition**
Gowdy J., TÜFEKÇİ Z.
2000 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, İstanbul, Turkey, 5 - 09 June 2000, vol.5, pp.1351-1354
- XVII. **Feature extraction using discrete wavelet transform for speech recognition**
TÜFEKÇİ Z., Gowdy J.
Southeastcon 2000., Nashville, United States Of America, 7 - 09 April 2000, vol.1, pp.116-123
- XVIII. **Speech spectrogram based model adaptation for speaker identification**
Gurbuz S., Gowdy J., TÜFEKÇİ Z.
Southeastcon 2000, Nashville, United States Of America, 7 - 09 April 2000, vol.1, pp.110-115

Metrics

Publication: 33

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