



MENU

[Smart Search](#) > [Results for Speech Commu...](#) > [Refine results for Arabic dia...](#) >

Arabic dialects speech corpora: A systematic review

[Full text at publisher](#)[Export](#) ▾[Add To Marked List](#)

< 1 of 101 >



Arabic dialects speech corpora: A systematic review

[Are you this author?](#)

By [Alqadasi, AMA](#) (Alqadasi, Ammar Mohammed Ali) ^[1], ^[2]; [Zeki, AM](#) (Zeki, Akram M.) ^[2]; [Sunar, MS](#) (Sunar, Mohd Shahrizal) ^[3], ^[4]; [Hashim, SZM](#) (Hashim, Siti Zaiton Mohd) ^[3]; [Salam, MSH](#) (Salam, Md Sah Hj) ^[3]; [Abdulghafor, R](#) (Abdulghafor, Rawad) ^[5]

[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

Source [SPEECH COMMUNICATION](#)

← [View Journal Impact](#)

Volume: 175

DOI: 10.1016/j.specom.2025.103322

Article Number 103322

Published NOV 2025

Indexed 2025-11-26

Document Type Review

Abstract

Speech processing applications are crucial in various domains, necessitating reliable speech recognition systems built upon suitable speech databases. However, the availability of comprehensive resources for the Arabic language remains limited compared to other languages like English. A systematic review was conducted to identify, analyze, and classify existing Arabic dialect speech databases. Initially, online digital databases and search engines were identified to collect a diverse range of manuscripts for thorough examination. The review encompassed 30 publicly accessible databases and an additional 39 self-databases, which were thoroughly studied, classified based on their characteristics, and subjected to a detailed analysis of research trends. This paper offers a comprehensive discussion on the diverse speech databases developed for various speech processing applications, highlighting the purposes and unique characteristics of Arabic speech databases. By providing valuable insights into their availability, characteristics, challenges, and research directions, this review aims to facilitate researchers' access to suitable resources for their specific applications, encourage the creation of new datasets in underrepresented areas, and promote open and easily accessible databases. Furthermore, the findings contribute to bridging the gap in available Arabic speech databases and serve as a valuable resource for researchers in the field. (c) 2017 Elsevier Inc. All rights reserved.

Keywords

Author Keywords: [Speech corpus](#); [Speech database](#); [Arabic dialects corpora](#); [Speech recognition](#); [Arabic dialects](#); [Modern Standard Arabic](#)

Keywords Plus: [EMOTION RECOGNITION](#); [PHONETICALLY RICH](#); [TEXT](#); [CORPUS](#); [CLASSIFICATION](#); [IDENTIFICATION](#); [DISTANCE](#); [ASR](#)

Author Information

Corresponding Address:	Alqadasi, Ammar Mohammed Ali	(corresponding author)
------------------------	---------------------------------	------------------------

▼ Karabuk Univ, Fac Comp & Informat Sci, Dept Comp Engn, TR-78050 Karabuk, Turkiye

Corresponding Address:	Alqadasi, Ammar Mohammed Ali	(corresponding author)
------------------------	---------------------------------	------------------------

▼ Int Islamic Univ Malaysia, Fac Informat & Commun Tec¹, Kuala Lumpur 53100, Malaysia
E-mail Addresses :

ammarmohammed@karabuk.edu.tr

Addresses :

▼ ¹ Karabuk Univ, Fac Comp & Informat Sci, Dept Comp Engn,
TR-78050 Karabuk, Turkiye

▼ ² Int Islamic Univ Malaysia, Fac Informat & Commun
Technol, Kuala Lumpur 53100, Malaysia

▼ ³ Univ Teknol Malaysia, Fac Comp, Johor Baharu 81310,
Malaysia

▼ ⁴ Univ Teknol Malaysia, Inst Human Ctr Engn, Media & Game
Innovat Ctr Excellence, Johor Baharu 81310, Malaysia

⁵ Arab Open Univ Oman, Fac Comp Studies FCS, POB 1596,
Muscat, Oman

E-mail Addresses :

ammarmohammed@karabuk.edu.tr

**Data availability
statement**

No data was used for the research described in the article.

**Categories/
Classification**

Research Areas: Acoustics; Computer Science

**Web of Science
Categories**

[Acoustics](#); [Computer Science](#), [Interdisciplinary Applications](#)

Funding

▼ [View funding text](#)

Funding agency

Malaysia International Islamic University

Universiti Teknologi Malaysia

[+ See more data fields](#)

[← View Journal Impact](#)

ISSN 0167-6393

eISSN 1872-7182

Current Publisher ELSEVIER, RADARWEG 29, 1043 NX AMSTERDAM, NETHERLANDS

Table of Contents [Current Contents Connect](#)

Research Areas Acoustics; Computer Science

Web of Science Categories Acoustics; Computer Science, Interdisciplinary Applications

Journal Impact Factor™

(2024) 

0.71

Journal Citation Indicator™
(2024) 

Citation Network

In Web of Science Core Collection

0 Citations

 [Create citation alert](#)

208

Cited References

[→ View Related Records](#)

How does this document's citation performance compare to peers?

Use in Web of Science

1

Last 180 Days

1

Since 2013

[Learn more →](#)

This record is from:

Web of Science Core Collection

- Science Citation Index Expanded (SCI-EXPANDED)

Suggest a correction

If you would like to improve the

[← Open comparison metrics panel](#)

quality of the data in this record,
please [Suggest a correction](#)

Data is from InCites Benchmarking &
Analytics

208 Cited References

[→ View as
set of
results](#)

Showing 30 of 208

(from Web of Science Core Collection)



© 2025 Clarivate. All rights reserved.

- | | | | |
|-----------|------------|-------------|---------------|
| Legal | Training | Cookie | Accessibility |
| Center | Portal | Policy | Help |
| Privacy | Product | Manage | Terms of |
| Statement | Support | cookie | Use |
| Copyright | Newsletter | preferences | |
| Notice | | Data | |
| | | Correction | |

Follow Us

