



Dictionary > Privacy and Compliance > Automatic Speech Recognition (ASR)

Automatic Speech Recognition (ASR)

Last updated: July 24, 2017

What Does Automatic Speech Recognition (ASR) Mean?

Automatic speech recognition (ASR) is the use of computer hardware and software-based techniques to identify and process human voice. It is used to identify the words a person has spoken or to authenticate the identity of the person speaking into the system.

Automatic speech recognition is also known as automatic voice recognition (AVR), voice-to-text or simply speech recognition.

Techopedia Explains Automatic Speech Recognition (ASR)

Automatic speech recognition is primarily used to convert spoken words into computer text. Additionally, automatic speech recognition is used for authenticating users via their voice (biometric authentication) and performing an action based on the instructions defined by the human. Typically, automatic speech recognition requires preconfigured or saved voices of the primary user(s). The human needs to train the automatic speech recognition system by storing speech patterns and vocabulary of their into the system.

SYNONYMS

Share this Term



Related Terms

[Voice Search](#)

[Speech-to-Text Software](#)

[Directed Speech Recognition](#)

[Biometric Verification](#)

Related Reading

[Be Amazed: A Glimpse at Your Future PC](#)

[5 Cool Things Google's Quantum Computer Could Do](#)

[Required Skill for the Information Age: Pattern Recognition](#)

[Another Look at Man-Computer Symbiosis](#)

[Can AI Have Biases?](#)

[6 \(Scary\) Things AI Is Getting Better at Doing](#)

Tags

Trending Articles



PERSONAL TECH

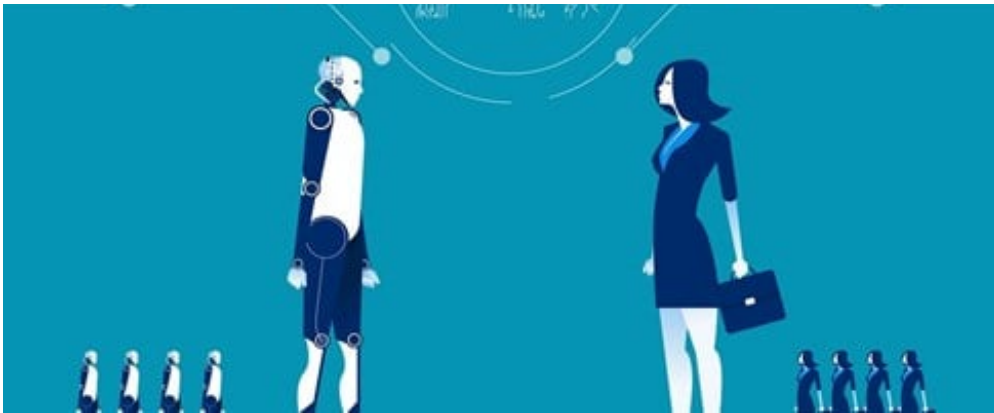
7 Sneaky Ways Hackers Can Get Your Facebook Password



ARTIFICIAL INTELLIGENCE

Multimodal Learning: A New Frontier in Artificial Intelligence





ARTIFICIAL INTELLIGENCE

7 Women Leaders in AI, Machine Learning and Robotics

Tech moves fast! Stay ahead of the curve with Techopedia!

Join nearly 200,000 subscribers who receive actionable tech insights from Techopedia.

Sign up

Latest Articles

Robotic Process Automation: What You Need to Know

By: **Brad Rudisail** | Contributor

4 Common Machine Learning Pitfalls and How To Avoid Them

By: **Lior Gavish** | Chief Technology Officer

Single-Tenant vs. Multi-Tenant Applications: How to Choose

By: **Sashank Purighalla** | Founder and CEO

Multimodal Learning: A New Frontier in Artificial Intelligence

By: **Dr. Tehseen Zia** | Assistant Professor at Comsats University Islamabad



Techopedia™ is your go-to tech source for professional IT insight and inspiration. We aim to be a site that isn't trying to be the first to break news stories, but instead help you better understand technology and — we hope — make better decisions as a result.

Copyright © 2022 Techopedia Inc. - [Terms of Use](#) - [Privacy Policy](#) - [Editorial Review Policy](#)

[Do Not Sell My Personal Information](#)

[Dictionary](#) [About](#)
[Topics](#) [Contributors](#)
[Tutorials](#) [Advertising Info](#)
[Webinars](#) [Write for Us](#)
[Q&A](#) [Guest Posting](#)
[Downloads](#) [Contact Us](#)
[Sitemap](#)

Follow Us



Subscribe To Our Newsletters

Subscribe

- ☐ Term of the Day ☐ Best of Techopedia (weekly)
☐ News and Special Offers (occasional)

By clicking sign up, you agree to receive emails from Techopedia and agree to our [Terms of Use & Privacy Policy](#).

Techopedia is a part of [Janalta Interactive.](#)