Voice Recognition and Authentication as a Proficient Biometric Tool and Its Application in Online Exam for Physically Challenged People

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Abstract

Voice Recognition is a fascinating field spanning several areas of computer science and mathematics. Reliable speech recognition is a hard problem, requiring a combination of many complex techniques; however, modern methods have been able to achieve an impressive degree of accuracy. On the other hand, today, most of the companies or institutes are conducting their examinations online to be a part of this best ever growing world. In this system user can give any available examination at any accessible center as per his/her choice and authority also can condense manpower and process delay overhead. This paper offers one way to conduct online examination for physically challenged people who can use their voice only to
register and attend the examination. In addition, in the course of this paper it has been tried to authenticate one registered user and to make the authentication process persistent throughout the examination interlude.

References


Index Terms

Computer Science
Signal Processing
Keywords
Butterfly Algorithm  Authentication  Fast Fourier Transform  Discrete Fourier transform
Chebyshev’s Inequality