Special Issue

Voice Analysis Techniques for Medical Diagnosis

Message from the Guest Editors

It has been established that noticeable changes in patients' voices can be caused by various diseases. For this reason, researchers have endeavored to analyze patients' voices to achieve medical diagnosis and treatment for over 50 years. Due to recent advancements in wearable devices and smartphones, digital biomarkers that objectively visualize the presence or absence of disease, as well as the changes in symptoms caused by treatment, have garnered enhanced attention. Since voice data can now be captured as digital information, it is considered a potential digital biomarker and is now being studied as a voice biomarker. Voice biomarkers may offer objective indicators in areas that have traditionally depended on subjective judgments. For example, research on the diagnosis of neuropsychiatric conditions such as depression, dementia, and Parkinson's disease has already been conducted. Therefore, this Special Issue welcomes the submission of articles that address a broad range of applications for voice biomarkers, extending beyond the diagnosis and evaluation of diseases.

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