

Technological Advancements in Phonetics Studies

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Abstract. This article examines the integration of modern technology in phonetic research, highlighting its impact on accuracy and accessibility. By utilizing tools such as speech analysis software and AI-driven models, phonetics research has experienced significant advancements. We investigate how these tools have transformed traditional methods, offering enhanced precision in sound analysis and pronunciation modeling. Furthermore, the article discusses future potential developments in this field, driven by ongoing technological innovation.

Keywords: phonetics, technology, research, analysis, innovation

Introduction: Phonetics, a branch of linguistics focusing on the sounds of human speech, has traditionally relied on labor-intensive and time-consuming methods. However, the advent of modern technology has revolutionized this field, introducing tools that offer greater accuracy and efficiency. This article explores the role of technological advancements in transforming phonetic research. We assess the impact of tools like speech analysis software and artificial intelligence on research methodologies, providing detailed insights into their contributions to phonetic studies. By highlighting current and future technological innovations, we aim to reveal new possibilities for research enhancement and application in education and communication.

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