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Systematic Literature Review for Marathi Digit Recognition using EEG Signal

Human - Computer Interaction (HCI) systems that use electroencephalography (EEG) to recognize numbers have the potential to improve new features by incorporating critical human data. This work relates to the systematic literature review and is a crucial component of the study on Marathi Number Recognition using EEG Signals. In this study, 300 chosen publications from the 2019–2024 IEEE Xplore, Science Direct, Google Scholar, ACM, and Pub Med databases were analyzed. This literature study provides all the necessary parts for an EEG-based number recognition system. Which comprise methods for classifying signals, pre-processing, feature extraction, and feature selection. The review of the literature makes it clear that EEG signals may be used for gadget handling, biometrics, medicine, and entertainment. When compared to India, the US, UK, and China have higher research densities. Our review of the literature revealed that relatively few studies use EEG signal processing for number identification and none use it to recognize Marathi numbers. This encourages us to work on Marathi number recognition using EEG signals.

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