E-health System for Traditional Chinese Medicine Assistance and Evaluation

Mots clés :

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Résumé du projet de recherche (Langue 1)

Traditional Chinese Medicine (TCM) is an ancient and comprehensive medical system including various forms of herbal medicine, acupuncture, tui-na, qi-gong and so on. As a non-medication therapy of TCM, acupuncture owns many therapeutic benefits including pain relief, depression, anxiety and so on. For current acupuncture treatment, TEAS (Transcutaneous Electrical Acupoint Stimulation) is used more often than manual acupuncture for its convenience and high repeatability of stimulus control. While the physiological or psychophysical effects of TEAS are often depending on stimulus parameters such as acupoint, frequency, amplitude and so on. Our purpose is setting up an e-health system for choosing optimal treatment to obtain effective therapeutic effect for different diseases. More specifically, the system we proposed is expected to be utilized for searching the combinations of acupuncture parameters space efficiently and determine the optimal acupuncture parameters that optimize performance characteristics subject to various diseases.