The Effect of Technology for Behavioral Training Program in Students Treatment for Speech Disorders

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Abstract

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This research aims to prepare behavioral training program enhancing by supported technology (by delaying the time of nutrition auditory and altering frequency obtaining) and evaluate the effectiveness of the program in stuttering treatment of students at King Abdulaziz University. The related literatures focuses on the literature review of stress and software engineering - Faculty of Computing and Information Technology - King Abdul Aziz University - Saudi Arabia

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Then they were trained using supported speech technologies through (8) sessions, and then the post stuttering scale is applied again to them. To investigate the effectiveness of each program of traditional and the used technology, the ratio "Blake" is calculated to get the average of the traditional program, it was (1.1), and this percentage value refers to a limited effectiveness. After that, percentage gain is calculated after employing technologies, it was (4.6), and this percentage refers to the effectiveness of technology program.

The results statistically is treated with “Wilcoxon test” (nonparametric) to calculate the sign of the differences between the impact of the different program compared to the technology based program, the calculated value of Z has reached to (2.8), this value statistically is significant (at 0.05). Therefore, this value indicates in level improvement, for technology based program.

Also sample of students have been studied using abstracted and descriptive data from forms for each case study. This research will be concluded by a number of recommendations, and proposed future works.

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