ABSTRACT

The developing of digital information technology is influencing the scoring board control system and jury's system in Taekwondo competition. Previously, each of jurors in the competition collects the player's point with a piece of paper manually, and then shows it in manually too. That system is being changed by equipments which are more fantastic which is completed by joy-stick, computer and in-focus. Because this equipment spends many of cost, so the scoring board control system would made with in a semi automatic based on microcontroller AT89S52 which cost cheaper in the supported devices. This system can help the juror and audiences to display and see the point of player who is competing. This system uses push-button, microcontroller, and a scoring board which is a merger of LED (Light Emitting Diode) and seven-segment. Push-button is used by jury and administrator to enter the point of players (usually the amount of the juror is four juries and only one administrator). Push buttons on jury consists of four push-buttons, there are two push buttons has a point 1 or 2 for each of red and blue team. Player's point can be displayed on the scoring board if there is more than two of the juror is pushing it on the same point (Point 1 or 2).

The information which is displayed on scoring board is the score for each of players (red team and blue team), round status of competition, and timer of competition. Round status and timer of competition is controlled by administrator. If a mistake happened in jury's judgment, administrator can increase or decrease player's point who are to be involved.

Keyword: Scoring Board, Taekwondo, Microcontroller AT89S52.