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Threshold Monitoring System For Improving Batsman's Performance

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Abstract : The main aim of the project is to improve batsmen' performance by measuring the degree of bat rotation, the exact timing required to play a shot, the force imparted by the bat on the ball wrist acceleration and footwork and so on. This Smart system aims at not only in improvising the batsman's performance but also helps the fans to play their favourite cricketer's trademark shot with ease. Although trainers are present to coach the players this Smart system would be an added advantage to identify the players' performance more accurately. Smart system consists of sensors fitted in bat, shirt sleeves, knee joints and Microcontrollers. The Sensors measure all the values during the play and processes it using the microcontrollers. The obtained data would be sent out to the trainer's mobile or laptop through the BLE and the data could be represented as a graphical image so as to interpret the performance very easily and to rectify the players' mistakes at ease.

Keywords : gyroscope, accelerometer, BLE, smart phone, flex sensors, monitoring.