
A Fatigue Measuring Protocol for Wireless Body Area Sensor Networks

Majid kamali chamtookesh*,

As players and soldiers do heavy drills and difficult and tedious tasks, they usually develop muscle tiredness. With this assumption, a fatigue measurement protocol for footballers and soldiers has been proposed in physical wireless sensor networks that uses in-body sensors. In this protocol, by setting the threshold level for each of the sensors, a hybrid parameter for measuring fatigue is introduced. When the data received by the sensor exceeds this threshold level, it is determined that the player or soldier is in fatigue. In addition, a shaky pad was used to calm tired muscles, and then using vibration, vibrational energy was used to recharge the sensors in the body.

Keywords : Fatigue test, body sensor network, sensor

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