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Abstract
The main purpose of this study is to design the protection system for the athletes. Pain makes inconvenience in human body whether by injury or from physiology. To lighten the inconvenience of the trigger point rapidly, according to the viewpoint of the trigger point by medical science, this study is to develop a new measurement technique which can quantify the painful signals of the physiology caused by the trigger points. This study includes measurements, analyses, data processes, electrical stimulation, and the application of the therapy. Measuring the impedance can locate key point where muscle is activated during the trigger point is stimulated, and the relationship of the key point to the trigger point will be analyzed. The physiological signals measured by the electrode after amplifier and filter are processed by LabVIEW? software, and the actual signals using signal process technology can be displayed. Finally, this system can be used to assess the possibility that the pain takes place around the trigger point after sport and offer the athletic trainer suggestions for athletic therapy.
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