

عنوان مقاله:

Automatic Validation of a Motor Unit Potential Train Using MUP shape Information

محل انتشار:

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خلاصه مقاله:

A novel method to assess validity of a motor unit potential train (MUPT) obtained by decomposing a needle - detected EMG signal is proposed . This method assesses the validity of a given MUPT in terms of motor unit potential(MUP) shape consistency and detesmines whether the MUPs Of the given MUPT are homogeneous in lernms of their shapes or not . Here , validation of a MUPT , based on the assigned MUP shapes is considered as a cluster in terms of the shapes of the assigned MUPs or not . The results are encouraging and suggest that using these methods can improve EMG signal decomposition results , and can facilitate automatic vaidation of a MUPT, extracted from either a .maually or automatically decomposed EMG signal

کلمات کلیدی:

.EMG signal decomposition , motor unit potential train , motor unit potential train validation

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