The QRS complex detection using morphological filtering

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This article presents a method of QRS complex detection and more precisely the R wave in an electrocardiogram (ECG) based on the mathematics morphology which calls upon the four operators’ morphology, erosion, dilation, opening and closing. These operators are combined with a window relocated which is called the structuring element. Morphological filtering uses the st ... 

Abstract View | Full Article View | DOI: 10.17352/abse.000011

The new paradigm in thermodynamic formulation of electrolytic systems – A review

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The general property of electrolytic systems in aqueous media is presented. The linear combination \( f_{12} = 2f(O) - f(H) \) of elemental balances: \( f_1 = f(H) \) for \( Y_1 = H \) and \( f_2 = f(O) \) for \( Y_2 = O \), is put in context with charge balance \( (f_0 = ChB) \) and other elemental and/or core balances \( f_k = f(Y_k) \) \((k=3,\ldots,K)\) related to the system in question. It is stated that \( f_{12} \) is (a) linear ... 

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3D Bioprinting: An attractive alternative to traditional organ transplantation

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3D bioprinting is computer-aided technology used to generate 3D models of organs. Employing this technique, organ and tissues are generated according to the patient body. 3D structures are formed by the deposition of bioink. ...