



Système d'acquisition des signaux ECG et PCG et aide au diagnostic

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Condition: New. Publisher/Verlag: Éditions universitaires européennes | Les pathologies du système cardiovasculaire sont un problème de santé publique dans le monde en général et au Cameroun en particulier. Elles sont la cause de nombreux décès. Pourtant, il est possible de trouver des voies et moyens alternatifs permettant une analyse objective du fonctionnement de notre cœur en observant au travers de dispositifs simples. Ce travail propose une approche originale d'acquisition et de visualisation des signaux phonocardiogramme et électrocardiogramme sur un smartphone Android. Il incorpore également un logiciel d'analyse et d'interprétation de signaux cardiaques, afin de suppléer le médecin dans ses tâches de diagnostic. En effet, cette analyse se fait en trois principales étapes. D'entrée de jeu les transformations non linéaires, qui accentuent le contraste mis en évidence par la dérivation. Ensuite, l'application des transformées en ondelettes permet de caractériser ces signaux en fournissant des descripteurs. Enfin, un réseau de neurones de type multicouche perceptron est utilisé pour la classification finale à partir des différents descripteurs extraits. Les résultats obtenus montrent un taux de généralisation de 92.9%. | Format: Paperback | Language/Sprache: fre | 88 pp.



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