

Accepted Manuscript

Automated recognition of cardiac arrhythmias using sparse decomposition over composite dictionary

Sandeep Raj, Kailash Chandra Ray

PII: S0169-2607(18)30726-0
DOI: <https://doi.org/10.1016/j.cmpb.2018.08.008>
Reference: COMM 4769



To appear in: *Computer Methods and Programs in Biomedicine*

Received date: 13 May 2018
Revised date: 20 July 2018
Accepted date: 8 August 2018

Please cite this article as: Sandeep Raj, Kailash Chandra Ray, Automated recognition of cardiac arrhythmias using sparse decomposition over composite dictionary, *Computer Methods and Programs in Biomedicine* (2018), doi: <https://doi.org/10.1016/j.cmpb.2018.08.008>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- A new method i.e. sparse decomposition over a composite dictionary is proposed.
- Five different features are extracted and concatenated from the atoms of dictionary.
- An optimal least-square twin SVM classifier model is developed using ABC technique.
- The experiments are evaluated under category and personalized schemes.
- A higher accuracy of 99.21% and 90.08% is achieved.

Download English Version:

<https://daneshyari.com/en/article/9952308>

Download Persian Version:

<https://daneshyari.com/article/9952308>

[Daneshyari.com](https://daneshyari.com)