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| Book Name: | **Innovative Solutions: A Systematic Approach Towards Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_** **3724.17** |
| Title of the Manuscript: | **Feature Extraction and Use of Artificial Neural Networks for Classification of PPG Signals** |
| Type of the Article | **Complete Book chapter** |

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| PART 1: Review Comments | | |
| Compulsory REVISION comments | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | **This manuscript presents a method for classifying PPG signals. The overall structure is complete and the logic is clear, which has certain value. However, there are still many details that need careful consideration and modification.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **yes** |  |
| **Are subsections and structure of the manuscript appropriate?** | **yes** |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | **The entire manuscript is reasonably written. Experiments are conducted using a dataset of a certain number of subjects, with rich data, and the research method is relatively reasonable, which has certain value.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references in the manuscript are outdated. It is recommended to update with the latest relevant literature. For example,**  **C. Lian et al., "Robust and Remote Photoplethysmography Based on Smartphone Imaging of the Human Palm," in IEEE Transactions on Instrumentation and Measurement, vol. 72, pp. 1 - 11, 2023, Art no. 5012611.**  **Jieying Wang, Caifeng Shan, Lin Liu, Zongshen Hou, "Camera - based physiological measurement: Recent advances and future prospects", Neurocomputing, pp. 127282, 2024.**  **X. Ma, Z. Wang, X. Liu and H. Kuang, "CMRPPGFormer: 3 - D Spatio - Temporal Convolutional Modulation Transformer Network for Remote Heart Rate Estimation," in IEEE Sensors Journal, vol. 24, no. 19, pp. 30275 - 30286, 1 Oct. 1, 2024.**  **P. Pirzada, A. Wilde and D. Harris - Birtill, "Remote Photoplethysmography for Heart Rate and Blood Oxygenation Measurement: A Review," in IEEE Sensors Journal, vol. 24, no. 15, pp. 23436 - 23453, 1 Aug. 1, 2024.** |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | yes |  |
| Optional/General comments | Please clarify the division of the training set, test set, and validation set in the results section;  please introduce in detail the background and basic data situation of the dataset used;  please compare the results with those of traditional machine learning methods. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| Reviewer Details: | |
| Name: | **Chao Lian** |
| Department, University & Country | **Northeastern University, China** |