|  |  |
| --- | --- |
|  | |
| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5745** |
| Title of the Manuscript: | **Analysis of Fingerprint Features: Ridge Information, Minutia Information and DWT Features for the Design of Gender Classifier Clusters** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**International Journal of Intelligent Systems and Applications in Engineering, 12(18s), 138–151, 2024.**

**Available:** [**https://www.ijisae.org/index.php/IJISAE/article/view/4959**](https://www.ijisae.org/index.php/IJISAE/article/view/4959)

|  |  |  |
| --- | --- | --- |
| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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. A minimum of 3-4 sentences may be required for this part.** | The chapter presents a detailed and methodologically sound study on fingerprint-based gender classification using ridge information, minutiae features, and multi-level Discrete Wavelet Transform (DWT) features.  The experimental design is robust, with the use of a well-balanced dataset (50 male and 50 female subjects), and the multi-finger analysis offers comprehensive insights into feature behavior across different digits**.** |  |
| **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. | **1**.Brief mention of application areas (e.g., forensics, biometric authentication) to contextualize the importance.  2.Clarify data usage: Mention that all ten fingerprints per individual were used — not just "50 male and 50 female samples," which could be misread as only one sample per person.  3.Short statement on methodology: e.g., Clustering and classification techniques were applied to analyze feature sets for gender prediction. |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, the manuscript is scientifically correct in its core methods, dataset usage, and experimental setup.  It addresses a well-known biometric application — gender classification from fingerprint features — and employs established techniques such as Discrete Wavelet Transform (DWT), ridge and minutiae analysis, and feature-based clustering.  However, while the manuscript is fundamentally sound from a scientific point of view, there are several areas that need refinement and clarification for it to meet higher academic publishing standards. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **1.** Partially. The manuscript includes a decent foundational set but lacks modern and recent citations.  2. Most references are older than 2017, which does not reflect the current state of biometric technology and AI-driven classification methods.  3. Add 5–6 recent references (from 2018 to 2024) covering deep learning, soft biometrics, CNN models, and biometric |  |
| Is the language/English quality of the article suitable for scholarly communications? | The manuscript demonstrates technical knowledge and structured methodology, but the quality of English language and grammar is not fully suitable for scholarly communication in its current form. Numerous issues with grammar, sentence construction, redundancy, and stylistic clarity are present throughout the document. |  |
| Optional/General comments |  |  |

|  |  |  |
| --- | --- | --- |
| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?** |  |  |

**Reviewer details:**

**S.Venkatesh, SRM Institute of Science and Technology, India**