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Improved Binary Dragonfly Optimization Algorithm and Wavelet Packet Based Non-linear Features for Infant Cry Classification

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Highlights

- This paper proposes a new feature set using wavelet packet transform based energy and non-linear entropies.
- Improved Binary Dragonfly optimization (IBDFO) based feature selection was proposed to select the most salient features.
- Several two-class and multi-class experiments have been successfully performed by means of this proposed method.
- We report very promising classification accuracies using the selected features by IBDFO for the dataset under test compared to the existing works in the literature.

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