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The design and validation of a hybrid Digital-Signal-Processing Plug-in for traditional Cochlear Implant Speech Processors

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Highlights

- We introduced a new Wavelet Neural Network (WNN) audio processing strategy for cochlear implants.
- The clarity of the signal was significantly improved using Particle Swarm Optimization to tune WNN weights.
- The performance of the proposed method was extensively assessed using 9 criteria.
- The proposed algorithm showed major improvements compared with state-of-the art.

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