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Classification of focal and non-focal EEG signals using neighborhood component analysis and machine learning algorithms

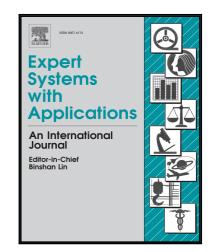
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Highlights

- CADFES tool is designed for automated classification of focal seizures
- Significant features were selected using neighbourhood component analysis
- Regularization parameter was optimized to ensure less classification loss
- \bullet Classification accuracy of 96.1% was attained using support vector machine classifier
- Results were better than existing approaches.

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