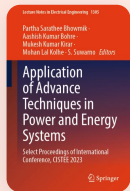


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Enhancing Real-Time Power Quality Monitoring: A Comprehensive Study on Feature Selection and Performance Analysis of Random Forest Classifiers

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[Rahul](#) , [Ayush Sambher](#) & [Pampa Sinha](#)

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Abstract

An in-depth analysis of the Performance of Random Forest classifiers is presented in this research paper in the context of the classification of real-time power. Accurate classification is essential for effective monitoring and control of power quality disturbances in electrical systems. In this study, a comprehensive real-time power quality dataset was leveraged to assess the efficacy of Random Forest classifiers with regard to various aspects, including feature selection, execution time, and