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### Abstract

The proceedings contain 234 papers. The topics discussed include: acoustic pulse extraction of fan blades based on energy threshold optimization; the design of DC motor driving control system for monorail lifting weight walk training device; architecture design and application of electricity metaverse; a fuzzy neural network -based time series analysis model for condition monitoring of work equipment; a new network training model for the processing of work equipment timing data; an efficient ultra -wideband cross -polarization converter based on electromagnetic metasurfaces; study on the influence of magnetic baseband on the loss characteristics of superconducting conductor layer; accuracy and bandwidth optimization of optical communication lasers; parameter prediction of SIR dual band bandpass filter based on convolutional neural network; and research on icing prediction technology of transmission lines based on artificial intelligence.

### Conference Information

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