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Remaining Useful Life Estimation in Prognostics Using Deep Convolution Neural Networks

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Highlights

- Propose a novel deep convolutional neural network-based method for remaining useful life predictions
- No prior expertise on prognostics and signal processing is required, that facilitates the application of the proposed method
- Effects of the key factors on the prognostic performance are widely investigated and the model parameters are optimized
- Experiments on a popular aero-engine degradation dataset (C-MAPSS) and comparisons with the related state-of-the-art results validate the effectiveness and superiority of the proposed method

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