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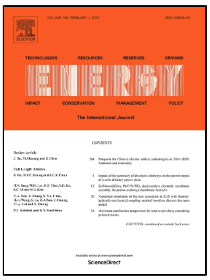

Blade-End Treatment for Axial Compressors Based on Optimization Method

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Highlights:

- The development of blade-end treatment was reviewed based on open literatures.
- The flow control mechanisms of blade-end treatment were summarized.
- The cantilever stator was optimized by employing the ANN in conjunction with GA.
- Optimization results were validated against the summarized flow mechanisms.
- Semi-empirical optimization was proposed to guide the further compressor design.

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