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Real Time Induction Motor Efficiency Optimization

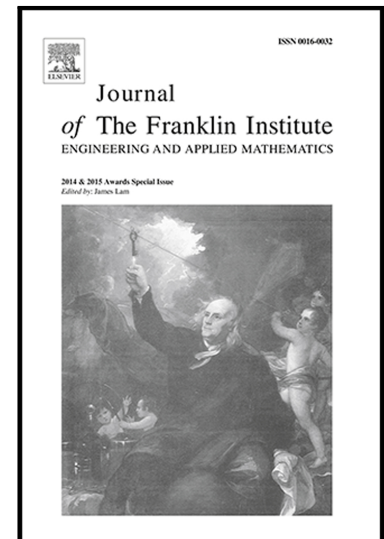
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Highlights

- A new online adaptive hybrid electric power Loss Minimization is proposed and implemented in real-time for direct vector controlled three-phase induction motor drive.
- The proposed solution overcomes the problem of “motor stalling” caused by uncontrolled sudden load torque variation.
- The optimization algorithm smoothly optimize the efficiency of the induction motor.
- The efficiency of the drive system is kept at its maximum regardless the operating point.

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