

**Fractional order sliding mode controller based on supervised machine learning techniques for speed control of PMSM**  
**Zahraoui, Younes; Zaihidee, Fardila M.; Kermadi, Mostefa; Mekhilef, Saad; Mubin, Marizan; Tang, Jing Rui; Zaihidee, Ezrinda M.**  
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**Optimal tuning of fractional order sliding mode controller for PMSM speed using neural network with reinforcement learning**

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