

# Review of: "Backstepping Control Design in Conjunction with an EKF-based Sensorless Field-Oriented Control of an IPMSM"

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Potential competing interests: No potential competing interests to declare.

The paper is well written and informative. The detailed literature review is done for various speed sensorless control of IPMSMs. I have a few suggestions to improvise the results section:

- a) The estimation error can be calculated and plotted for Figs. 4 and 5. Also, some performance metrics can be used to quantify the error (e.g., IAE, ITAE, RMSE...).
- b) Increase the range of the Y-axis in Fig. 6 for better visibility of the graph.
- c) The line thickness in the graphs may be increased for better visibility.
- d) Analysis similar to Fig. 4 (motor speed state for no-load speed variation and speed reversal) can be extended for half load and full load conditions, as well as for the rated speed.