

Sensorless Control of Induction Motor Based on Differential Flatness Theory and Reduced MRAS Observer

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ABSTRACT

In this paper, the authors propose a hybrid sensorless control method of IM. This method consists of using the differential flatness theory and reduced MRAS observer. The control design proceeds by showing that each input of the motor model stands for a differentially flat system, where the flat output is chosen to be the associated state variable. Next, for each regulation loop a virtual control input is computed that can invert the loop's dynamics and can eliminate the system's tracking error. The reduced MRAS observer is used to estimate the rotor speed and flux. Simulation and experimental results are presented to illustrate the effectiveness of the proposed approach for sensorless control of the induction motor.

KEYWORDS

Differential Flatness Theory, Induction Motor, Reduced MRAS Observer, Sensorless Vector Control

1. INTRODUCTION

The sensorless control of induction machine is a very broad area of research, and for that, a very large number of researches who have contributed to this. However, many problems related to parametric variations and the mechanical speed sensor still persist. Vector control and especially sensorless control can lose its performance because of these problems, because generally this kind of control depends on the stator and rotor time constant (Armando, Boglietti, Musumeci, & Rubino, 2021) (Savarapu & Narri), in this context, several strategies have been proposed in the literature to realize the sensorless control of this machine. A large part of the proposed methods is based on observers depending on the model of the asynchronous machine (Vasu, Thalluru, & Kumar, 2021), (Adamczyk & Orłowska-Kowalska, 2021; Al-Rouh, 2004; Comanescu, 2016; De Wit, Ortega, & Mareels, 1996; Manceur, 2012; Morand, 2005; Beddiaf Yassine, Fatiha, & Chrifi-Alaoui; Zbede, Gadoue, & Atkinson, 2016). Other research is on the contribution of artificial intelligence to improve sensorless control of the machine (Abdollahi, 2021) (Chang, Espinosa-Perez, Mendes, & Ortega, 2000; De Doncker & Novotny, 1994; Hussain, Ammar, & Hassan, 2017; Ismail, 2012; Lorenz, Lipo, & Novotny, 1994). In paper (Enany, Wahba, & Hassan, 2014) the author proposes a new technique to model the stator winding, for using to validate a remote and sensorless stator winding temperature estimation technique. (Salima, Loubna, & Riad, 2018) present a global stability and robust nonlinear controller applied to induction motor. (Mustafa, Nikolakopoulos, & Gustafsson, 2014) present a fault classification algorithm based on a robust linear discrimination scheme, this technique is applied to detect of two kinds of Induction

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