



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_9905
Title of the Manuscript:	A Proposed Modified Constant Frequency Variable Duty PWM Based Speed Control Technique for DC Motor Drives: A New Method to Achieve More Precise Control over Speed
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>



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<u>Compulsory</u> REVISION comments	“Introduction” and “Theory” sections are not enough referenced to support the state of the art for the stated problem. 1. It is necessary to add relevant and current references (i.e. Gómez-Espinoza, A.; Hernández-Guzmán, V.M.; Bandala-Sánchez, M.; Jiménez-Hernández, H.; Rivas-Araiza, E.A.; Rodríguez-Reséndiz, J.; Herrera-Ruíz, G. A New Adaptive Self-Tuning Fourier Coefficients Algorithm for Periodic Torque Ripple Minimization in Permanent Magnet Synchronous Motors (PMSM). Sensors 2013, 13, 3831-3847.); 2. As well as incorporate references to support important statements and mathematical formulas: 3. Statement from rows 46-50, regarding “mechanical shocks effects”. 4. Statement from rows 51-54, regarding limitation of “single controlling parameters”. 5. Mathematical formulas should be referenced to the authors or previous mathematical expressions: (1), (2), (3), (4), (5). 6. Wrong statements must be corrected: The speed of a DC motor is NOT directly proportional to the average power (as stated from rows 22-25), should be modified to be consistent to row 98. The variable frequency PWM technique requires constant OFF time or constant ON time instead of “constant duty” as stated in rows 41-42.	1. In the revised version of the paper, some relevant and current references have been added in the appropriated places as suggested by the reviewer. 2-5. Appropriate references have been added in the places as pointed out by the reviewer. 6. All the wrong sentences, pointed out by the reviewer have been corrected in the revised version of the paper.
<u>Minor</u> REVISION comments	1. “Experimental results and discussion” should be reviewed to clearly show that experiments and results demonstrate more precise control of speed.	1. The section entitled “Experimental results and discussion” has been revised thoroughly to clearly reflect the experiments and results which



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	2. Conclusion should be complemented to incorporate quantitative results (percentage of improvement achieved).	demonstrate more precise control of speed. 2. Adequate quantitative results have been incorporated in the "Conclusion" section to make it more concise.
<u>Optional/General</u> comments	It is recommended to review the paper to improve sentences structure and grammar (i.e. row 101 "is also cannot be").	The language of the entire paper has been modified to increase the readability of it. (the pointed out line "101" have obviously been corrected.