# Author’s Response to the Review Comments

***Journal* : Jurnal Elektronika dan Telekomunikasi**

***Title of Paper* :** Rotational Speed Control Of Brushless Dc Motor Using Genetic Algorithm Optimized PD Controller

*Authors* : Rizqi Andry Ardiansyah, Edwar Yazid

We appreciate the time and efforts by the editor and referees in reviewing this manuscript. We have addressed all issues indicated in the review report, and believed that the revised version can meet the journal publication requirements. We have included the line numbers in the revised manuscript to help the reviewers identify our changes.

| **Comment** | **Response** | **Location of Response in Revised Manuscript** |
| --- | --- | --- |
| **EDITOR’S COMMENTS** |  |  |
| Example : |  |  |
| I personally noticed that there were significant errors on the graphs existing on the latest document that you have submitted for the recent review (dated on 05-12-2018). Could you please put special attention on this issue? | We have revised all graphs based on this recommendation. | All section |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **REVIEWER 1 COMMENTS** |  |  |
| The aim of this research is to improve the transient and the steady state performances of the BLDC rotational control under loaded condition. the author discusses some proposed controller e.g. classical PI, fuzzy tuned PID etc. It is known that the disadvantage of the PD controller is the difficulty finding the proper gain constant. This paper can prove that by using GA, the problem can be solved (it can be better than ZN). However, the advantages of the PD controller over all the mentioned controllers still need to be discussed. So the author has to discuss that PD control is the best (or better) method for rotational speed control of BLDC motor. | We have revised all based on this recommendation. | Last point of conclusion |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **REVIEWER 2 COMMENTS** |  |  |
| This paper compares the performance of GA-PD controller and ZN-PD controller. It is mentioned in the paper that the controller has been realized in microcontroller Atmega. GA and ZN here are essentially the tuning methods, where they will give different gain values to Proportional and Derivative parts of the controller. If the gains are different, surely the performance such (rise time, overshoot, settling time, steady state error) are also different. The results show that there is no significant different in performance between GA-PD and ZN-PD, which makes the use of GA-PD is less importance.   This paper will be more interesting if it emphasizes the tuning processes , the simplicity, computational for tuning, and etc. | The aim of this research is to improve the performance of BLDC control. The performance is better after the method is applied eventhough it is not significant. Further research need to be conducted to obtain better performance.  I think, GA is a common method used in many research, Iam afraid if i put the tuning processes in this paper, it will be more like a tutorial. | No revision made |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |