**REVIEW**

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| Title | **Feedback Techniques Using PID and PIIntelligent For Greenhouse Temperature Control** |
| Type | An ISO 3297: 2007 Certified Organization |
| Volume & Page | Vol. 3, Issue 6, June 2014 |
| Year | 2014 |
| Author | Y. El Afou, L. Belkoura, M. Outanoute, M. Guerbaoui, A. Rahali, A. Ed-Dahhak, A. Lachhab, C. Join, B. Bouchikhi |
| Reviewer | Akza Noprian |
| Date | 26 November 2019 |
| Objective(s) | This study examines new ways to control internal greenhouse temperature using two types of controllers: PID and PI-intelligent. |
| Subject | The implementation of two controllers PID and PI-intelligent which has been implemented in order to control the temperature under greenhouse. |
| Strength(s) | * Combination of PID and PI-intelligent are the adaptive controllers that can identify the process online. * PI-intelligent controller can overcome the weakness of PID controller especially for changing process behavior and lag in responding to large disturbances. * The PI- intelligent controller ensure good performances without having to tune again and again the PID parameters and guarantees a suitable adaptation when the plant is changing with time. |
| Weakness(es) | PID controller can not be used alone, because it has some difficulties such as non-feedback system with constant parameters, poor performance when the PID loop gains must be reduced, no direct knowledge of the process, and have lag in responding to large disturbances. |