



SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village, GUDLAVALLERU-521 356, Krishna District, A.P., India

(Approved by AICTE, New Delhi and Permitted by A.P. State Government)

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Percentage of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research

AY 2017-18

S. No	Name of the faculty	Nature of the award	Name of the agency
1.	Dr.M. Siva Kumar	Editorial Board Member	AREEE
2.	Dr.M. Siva Kumar	Editorial Board Member	JEES
3.	Dr.K.K.Raju	Reviewer	Recent Patents on Computer Science
4.	Sk.Baji Karimulla Reddy	Certificate of Awarded	NPTEL
5.	Dr. P. Haritha	St. John's Pharmacy College Award	Indian Journal of Pharmaceutical Education and Research


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DVA

Subject: Re: Request for editorial board member in our new journal named "Journal of Electrical Engineering and Science"

From: mangipudi siva kumar<shivamangipudi2@rediffmail.com> on Sat, 27 Jun 2015 12:31:33

To: "Dj Publication "<djjames201506@gmail.com>

Dear sir,

Thank you very much for inviting me to act as a Editorial board member in Journal of Electrical Engineering and Science.I here by giving my acceptance.
thank you.Kindly intimate my role in this regard.

Dr.M.Siva Kumar M.E,Ph.D
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Mobile:09440354739,09701764651

From: Dj Publication <djjames201506@gmail.com>

Sent: Fri, 26 Jun 2015 07:50:24

To: paul diaz <pauldiaz71@gmail.com>

Subject: Request for editorial board member in our new journal named "Journal of Electrical Engineering and Science"

Respected Professor,

It will be a great pleasure to us if you accept to be an editorial board member of our new journal named "Journal of Electrical Engineering and Science".

We will provide honorariums according to your contribution.

I look forward to a long and productive relationship. For more details kindly go through the journal website www.djee.org.

—
Thank you and with regards,

The Managing Editor

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To: kalyan20.kaniganti@gmail.com

Thu, Jul 27, 2017 at 4:48 PM

July 26, 2017**Dr. KK Raj**

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JNTUK

Dept Elect & Elect Engn

Kakinada

India.

Dear Dr. Raj,

In view of your expertise in the field, your name has been recommended as a potential reviewer for the manuscript entitled "**Research of Micro Hydro Power Control Based on Self-excited Induction Generator**" that has been submitted for publication in **Recent Patents on Computer Science**. Please review the abstract if it comes in your field of expertise and provide us your willingness to review the complete manuscript. I hope that you will be able to help us.

For aims and scope, instructions for authors and other information about the journal please log on to <http://benthamscience.com/journals/recent-patents-on-computer-science/>

I would appreciate if you could kindly respond to this message at your earliest. Since we are endeavoring to provide an efficient review process for our authors, we would request that send your comments and recommendations back to us as soon as possible.

Thank you for your consideration.

Regards,

Raheela Anjum

Editorial Manager

Email: editorial@benthamscience.org**Title:** Research of Micro Hydro Power Control Based on Self-excited Induction Generator**Abstract:** BACKGROUND: Recently, with the increasing shortage of energy, researchers put more attention to wind power, photovoltaic, hydro electric and other renewable energy technologies. As one of the most important

renewable energy, hydro energy is widely used. Meanwhile, the scholars put forward the concept of micro-grid which is a controllable unit consisting the generator, load, energy storage device and control device, and micro hydro generator as one of the most important micro source has been getting more and more attention. So, in this paper, a grid-connected topology circuit of micro hydro power system based on self-excited induction generator is proposed.

METHODS: Micro hydro power system based on self-excited induction generator is driven the turbine by the fixed amount of hydraulic potential difference, and then drive the induction generator to generate stabilization power. this controller includes the AC/DC module and DC/AC module, the AC/DC module is using hysterics PWM current control, while DC/AC module is using voltage outer loop, current inner loop of double closed-loop control.

RESULTS: In this paper, a resistive load which can be varied from 0 to 4.5kW in steps is used as consumer load and the variety of grid voltage and grid current when the load is changed. When the system starts running, the grid voltage can be tracked by grid current with the same frequency and phase, the power factor is 1. And the current has a small impact to voltage. the waveforms of grid voltage and grid current when the load is added from 0W to 300W. The power of generator is used by load, so grid current is reduced.

CONCLUSION: A topology structure of micro hydro power based on self-excited induction generator has been proposed. It has been presented in an economical and energy-efficient way. A comparative study of both the rectifier is uncontrolled and controlled in the system has been demonstrated by simulation. The system of excited capacitance been proposed have given a steady voltage. The experimental investigation shows the grid voltage can be tracked by grid current with the same frequency and phase, the result of grid is excellent option for micro hydro applications.



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