



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | ISSN: 2320 - 2882

An International Open Access, Peer-reviewed, Refereed Journal

The Board of
International Journal of Creative Research Thoughts
Is hereby awarding this certificate to

M. Mohan Kumar

In recognition of the publication of the paper entitled
**PARTICLE SWARM OPTIMIZATION SOLUTION TO UNIT COMMITMENT
PROBLEM**

Published In IJCRT (www.ijert.org) & 7.97 Impact Factor by Google Scholar

Volume 9 Issue 12 December 2021 , Date of Publication: 01-December-2021

UGC Approved Journal No: 49023 (18)

PAPER ID : IJCRT2112007

Registration ID : 213473




EDITOR IN CHIEF

Scholarly open access journals, Peer-reviewed, and Refereed Journals, Impact factor 7.97 (Calculate by google scholar and Semantic Scholar | AI-Powered Research Tool) , Multidisciplinary, Monthly Journal



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT
An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal
Website: www.ijcrt.org | Email id: editor@ijcrt.org | ESTD: 2013





INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | ISSN: 2320 - 2882

An International Open Access, Peer-reviewed, Refereed Journal

The Board of
International Journal of Creative Research Thoughts
Is hereby awarding this certificate to

Prof. M. Gopi Chand Naik

In recognition of the publication of the paper entitled
**PARTICLE SWARM OPTIMIZATION SOLUTION TO UNIT COMMITMENT
PROBLEM**

Published In IJCRT (www.ijert.org) & 7.97 Impact Factor by Google Scholar

Volume 9 Issue 12 December 2021 , Date of Publication: 01-December-2021

UGC Approved Journal No: 49023 (18)

PAPER ID : IJCRT2112007

Registration ID : 213473




EDITOR IN CHIEF

Scholarly open access journals, Peer-reviewed, and Refereed Journals, Impact factor 7.97 (Calculate by google scholar and Semantic Scholar | AI-Powered Research Tool) , Multidisciplinary, Monthly Journal



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT
An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal



Website: www.ijcrt.org | Email id: editor@ijcrt.org | ESTD: 2013



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | ISSN: 2320 - 2882

An International Open Access, Peer-reviewed, Refereed Journal

The Board of
International Journal of Creative Research Thoughts
Is hereby awarding this certificate to

S. Rajendra Prasad

In recognition of the publication of the paper entitled
**PARTICLE SWARM OPTIMIZATION SOLUTION TO UNIT COMMITMENT
PROBLEM**

Published In IJCRT (www.ijert.org) & 7.97 Impact Factor by Google Scholar

Volume 9 Issue 12 December 2021 , Date of Publication: 01-December-2021

UGC Approved Journal No: 49023 (18)

PAPER ID : IJCRT2112007

Registration ID : 213473




EDITOR IN CHIEF

Scholarly open access journals, Peer-reviewed, and Refereed Journals, Impact factor 7.97 (Calculate by google scholar and Semantic Scholar | AI-Powered Research Tool) , Multidisciplinary, Monthly Journal



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT
An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal
Website: www.ijcrt.org | Email id: editor@ijcrt.org | ESTD: 2013

