

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

Charan Pote

In recognition of the publication of the paper entitled

OPTIMIZATION OF ROUTING PROTOCOL FOR MANET USING BAT OPTIMIZATION ALGORITHM

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

Volume 9 Issue 5 May 2021, Pate of Pub<mark>lication: 26-May</mark>-2021

UGC Approved Journal No: 4902<mark>3 (18)</mark>

PAPER ID: IJCRT2105994

Registration ID: 207790

ISSN 2320-2882 IJCRT STANDER TO STANDER TO

EDITOR IN CHIEF

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



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT







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

Srushti Gulhane

In recognition of the publication of the paper entitled

OPTIMIZATION OF ROUTING PROTOCOL FOR MANET USING BAT OPTIMIZATION ALGORITHM

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

Volume 9 Issue 5 May 2021, Pate of Publication: 26-May-2021

UGC Approved Journal No: 4902<mark>3 (18)</mark>

PAPER ID: IJCRT2105994

Registration ID: 207790

EDITOR IN CHIEF

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



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT

An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal



Publication **10**



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

Poorva Rahangdale

In recognition of the publication of the paper entitled

OPTIMIZATION OF ROUTING PROTOCOL FOR MANET USING BAT OPTIMIZATION ALGORITHM

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

Volume 9 Issue 5 May 2021, Pate of Publication: 26-May-2021

UGC Approved Journal No: 4902<mark>3 (18)</mark>

PAPER ID: IJCRT2105994

Registration ID: 207790

ISSN 2320-2882 JCRT JET 18 (14 JUL)

EDITOR IN CHIEF

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



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT







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

Shraddha Vaidya

In recognition of the publication of the paper entitled

OPTIMIZATION OF ROUTING PROTOCOL FOR MANET USING BAT OPTIMIZATION ALGORITHM

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

Volume 9 Issue 5 May 2021, Pate of Publication: 26-May-2021

UGC Approved Journal No: 4902<mark>3 (18)</mark>

PAPER ID: IJCRT2105994

Registration ID: 207790

ISSN 2320-2882 JDRT

EDITOR IN CHIEF

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



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT

An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal







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

Nikita Asati, Suhani Asati

In recognition of the publication of the paper entitled

OPTIMIZATION OF ROUTING PROTOCOL FOR MANET USING BAT OPTIMIZATION ALGORITHM

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

Volume 9 Issue 5 May 2021, Pate of Publication: 26-May-2021

UGC Approved Journal No: 4902<mark>3 (18)</mark>

PAPER ID: IJCRT2105994

Registration ID: 207790

ISSN 2320-2882 JDRT

EDITOR IN CHIEF

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



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS | IJCRT

An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal

