IEEE.org IEEE Xplore IEEE SA IEEE Spectrum More Sites

Cart Create Account Personal Sign In

Browse My Settings Help

Access provided by:
KGiSL Institute of Technology

Sign Out

Access provided by:
KGiSL Institute of Technology

Sign Out

All

ADVANCED SEARCH

Conferences > 2021 4th International Confer...

# Machine Learning Algorithms in 5g Cellular Network for Efficient Cognition

Publisher: IEEE

Cite This PDF

Chandra Sekhar Pasumarthi ; Akash Jain ; Narender Ravula ; Shanthi Palaniappan ; Sankararao Majji ; S K Mydhili All Authors

40
Full
Text Views

Alerts

Manage Content Alerts
Add to Citation Alerts

Abstract

Document Sections

I. Introduction

II. 5g Network Design Architecture

III. Prposed Method

IV. Results and Discussion

V. Conclusion

Authors

Figures

References

Keywords

Metrics

More Like This

Downl
PDF

**Abstract:**In today's communications and information technology business, cellular mobile networks are one of the technologies that has had the most significant impact on the indust... **View more**

**Metadata**

**Abstract:**
In today's communications and information technology business, cellular mobile networks are one of the technologies that has had the most significant impact on the industry. As part of the steps made to improve the overall quality of life, many aspects of everyday living, as well as technical breakthroughs, are becoming increasingly reliant on smart gadgets, which are becoming increasingly common. It is projected that, in the near future, every electric gadget will be a smart device that can be connected to the internet on a regular basis. A new network paradigm known as the vast cellular Internet of Things is created as a result, in which a large number of simple battery-powered heterogeneous devices work together for the improvement of humanity in all aspects. This system was developed in accordance with the standard simulation specifications for such systems, and the realistic data that will be extracted from it will aid in demonstrating the effectiveness of the proposed algorithms in order for them to be included in the 5G cellular communications technology.

**Published in:** 2021 4th International Conference on Computing and Communications Technologies (ICCCT)

**Date of Conference:** 16-17 December 2021

**INSPEC Accession Number:** 21722366

**Date Added to IEEE *Xplore*:** 18 February 2022

**DOI:** 10.1109/ICCCT53315.2021.9711802

**ISBN Information:**

**Publisher:** IEEE

Chandra Sekhar Pasumarthi
Microsoft India Pvt Ltd, Hyderabad, India

Akash Jain
Electronics & Telecommunication SSIPMT, Raipur, Chhattisgarh, India

Narender Ravula
CSE Department, GITAM (Deemed to be University), Hyderabad, India

Shanthi Palaniappan
Sri Krishna College of Engineering and Technology, Coimbatore, India

Sankararao Majji
Department of ECE, GRIET, Hyderabad, India

S K Mydhili
Department of CSE, KGiSL institute of technology, Coimbatore, India

## Contents

### I. Introduction

The scarcity of energy and bandwidth is a problem for wireless communication systems since it affects the quality of service and the capacity of the channels [1]. Most of the research in wireless networks focuses on new communication and networking paradigms that use these limited resources more intelligently and efficiently than previous paradigms. In order to make better use of limited network resources in a more effective and flexible manner, cognitive radio is a fundamental enabling technology that allows radios and other devices to adapt their operational settings to changes in the surrounding radio environment. The popularity of cognitive radio is rising. Cognitive radio is a critical enabling technology that helps radios and other devices make better use of scarce network resources by using them more efficiently and adaptably. Things like signal power, frequency, and modulation type fall under the category of transmission characteristics.

Sign in to Continue Reading

## Authors

Chandra Sekhar Pasumarthi
Microsoft India Pvt Ltd, Hyderabad, India

Akash Jain
Electronics & Telecommunication SSIPMT, Raipur, Chhattisgarh, India

Narender Ravula
CSE Department, GITAM (Deemed to be University), Hyderabad, India

Shanthi Palaniappan
Sri Krishna College of Engineering and Technology, Coimbatore, India

Sankararao Majji
Department of ECE, GRIET, Hyderabad, India

S K Mydhili
Department of CSE, KGiSL institute of technology, Coimbatore, India

Figures

References

Keywords

Metrics

**More Like This**

A Design and Development of Internet of Things (IoT) System and Learning Activity to Promote Computational Thinking
2022 7th International STEM Education Conference (iSTEM-Ed)
Published: 2022

Emerging Trends of ML-based Intelligent Services for Industrial Internet of Things (IIoT)
2019 Computing, Communications and IoT Applications (ComComAp)
Published: 2019

**Show More**

IEEE Personal Account

CHANGE USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS

Profile Information

COMMUNICATIONS PREFERENCES

Need Help?

US & CANADA: +1 800 678 4333

Follow

VIEW PURCHASED DOCUMENTS

PROFESSION AND EDUCATION

TECHNICAL INTERESTS

WORLDWIDE: +1 732 981 0060

CONTACT & SUPPORT

About IEEE *Xplore* | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | IEEE Ethics Reporting | Sitemap | IEEE Privacy Policy

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2023 IEEE - All rights reserved.

**IEEE Account**

» Change Username/Password

» Update Address

**Purchase Details**

» Payment Options

» Order History

» View Purchased Documents

**Profile Information**

» Communications Preferences

» Profession and Education

» Technical Interests

**Need Help?**

» **US & Canada:** +1 800 678 4333

» **Worldwide:** +1 732 981 0060

» Contact & Support

About IEEE *Xplore* | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.
© Copyright 2023 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.