



Criterion 3: Research, Innovations and Extension

Key Indicator 3.3- Research Publication and Awards

Metric Number: 3.3.2

A.Y 2021

Submitted to

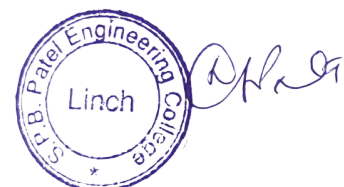


NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL



Response:

1. Cover page,
2. The first page of the chosen- publication
3. Web link of Journal/book





[1] Title Name: A LITERATURE SURVEY ON BLOCKCHAIN CYBER SECURITY DESIGN

~ By Tejas Patel

Calendar Year of publication: 2021

1. Cover page of Journal/book:

The screenshot displays the journal's website interface. At the top, there are navigation links for 'Call for Paper', 'Publication Process', 'Submit Paper Online', 'Check Paper Status', and 'UGC Approved Details'. The main header features the journal's logo, name, and UGC approval details (no. 63975(19), ISSN: 2349-5162, ESTD Year: 2014). Below the header, a navigation menu includes 'Home', 'Editorial / RMS', 'Call For Paper', 'Research Areas', 'For Author', 'Current Issue', 'Archives', 'NEW FAQs', and 'Contact Us'. The article details are presented in a structured layout:

- Published in:** Volume 8 Issue 9, September-2021, eISSN: 2349-5162
- UGC and ISSN approved:** 7.95 impact factor UGC Approved Journal no 63975
- 7.95 impact factor:** calculated by Google scholar
- Unique Identifier:** Published Paper ID: JETIR2109161, Registration ID: 314518
- Page Number:** (Not explicitly shown in the screenshot)
- Title:** A LITERATURE SURVEY ON BLOCKCHAIN CYBER SECURITY DESIGN
- Authors:** Hiral Rathod, Sunil Kapadia, Tejas Patel
- Abstract:** The problem of block chain cyber security is discussed in this survey study. Block chain cyber security is essential in today's generation[08]. Many studies on block chain cyber security have been done in the past quarter. This research article discusses block chain cyber security improvement. Discussing blockchain technology cybersecurity. Block chain technology, derived from the Merkle Tree, would be a decentralised digital record that secures data transfers. Its decentralisation eliminates the need for these central authority to manage it. This article presents an overview of block chain technology. This study first clarifies the basics of Blockchain Technologies. This research study surveys algorithms presented in numerous block chains. Block chain, the backbone of Bitcoin, has lately gotten a lot of Block chain is really an irreversible data storage technique that may be used to store value in anything. Nevertheless, becoming a human concept, block chain technology has drawbacks such as sustainability, privacy, and non-technical customer. Furthermore, this study effort has discussed current technological advancements.
- Download PDF:** (Icon)
- Downloads:** 000636
- Print This Page:** (Icon)
- Impact Factor:** 7.95
- Impact Factor Calculation:** [Click here](#)
- Current Call For Paper:** Volume 11 | Issue 5 May 2024



2.First Page of Publication:



A LITERATURE SURVEY ON BLOCKCHAIN CYBER SECURITY DESIGN

¹Hiral Rathod, ²Sunil Kapadia, ³Tejas Patel

¹Assistant Professor, ²Head of Blockchain Innovation at Inferenz, ³Assistant Professor

¹Department of Computer Science and Engineering,

¹Government Engineering College, Patan, Gujarat, India

Abstract : The problem of block chain cyber security is discussed in this survey study. Block chain cyber security is essential in today's generation[08]. Many studies on block chain cyber security have been done in the past quarter. This research article discusses block chain cyber security improvement. Discussing blockchain technology cybersecurity. Block chain technology, derived from the Merkle Tree, would be a decentralised digital record that secures data transfers. Its decentralisation eliminates the need for these central authority to manage it. This article presents an overview of block chain technology. This study first clarifies the basics of Blockchain Technologies. This research study surveys algorithms presented in numerous block chains. Block chain, the backbone of Bitcoin, has lately gotten a lot of Block chain is really an irreversible data storage technique that may be used to store value in anything. Nevertheless, becoming a human concept, block chain technology has drawbacks such as sustainability, privacy, and non-technical customer. Furthermore, this study effort has discussed current technological advancements.

Index Terms - Cyber Threat Intelligence (CTI), Distributed Ledger Technology (DLT), Directed Acyclic Graph (DAG), Cyber Security Information Exchange (CYBEX), etc.

I. INTRODUCTION

In many approaches, block chain technology addresses the problems of security and privacy. To begin, new blocks are always kept in a linear as well as chronological order. That is, they are always appended to the block chain's "terminus." Whenever users examine at the Bitcoin blockchain network, you'll see that each block has a location upon on chain known as a "altitude." This block's height has achieved 656,197 units as of November 2020 [11].

It's also very hard to return and modify the content of a block until it has been put to the end of the block chain unless such majority of people agree to do so. This is due to the fact that each block includes its own hash, as well as the hash of the block before it and the previously stated time stamp. If that information is edited in any way, the hash code changes as well Here's why that's important to security.

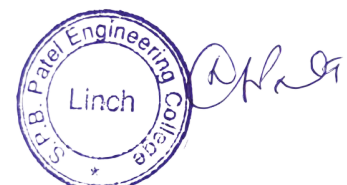


Fig 1. Block chain technology accounts [30].

Let's say a hacker wants to alter the block chain and steal Bitcoin from everyone else. If they were to alter their own single copy, it would no longer align with everyone else's copy. When everyone else cross-references their copies against each other, they would see this one copy stand out and that hacker's version of the chain would be cast away as illegitimate.

It is almost hard to counter with such a hack, since the hacker would need to both possess and modify 51% of the block chain copies simultaneously in order for their new copy into becoming the majority copy, which means that the agreed-upon chain would

3.Web link for Journal/book: [JETIR2109161.pdf](#)





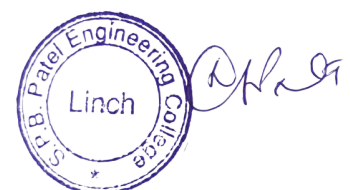
[2]Title Name: FIXED POINT THEOREMS IN D*METRIC SPACES FOR EIGHT WEAKLY COMPATIBLE MAPPINGS FOR INTEGRAL TYPE MAPPING

~ By Dr. Shailesh Patel

Calendar Year of publication: 2021

1.Cover page of Journal/book:

The screenshot shows the cover page of the International Journal of Engineering Research in Current Trends (IJERCT). The header features the journal's logo, which includes a stylized feather and the acronym 'IJERCT'. The title 'INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH IN CURRENT TRENDS' is displayed in a mix of blue and orange text. The eISSN number 2582-5488 is located in the top right corner. A navigation menu includes links for HOME, ABOUT US, INSTRUCTIONS, CURRENT ISSUE, CALL FOR PAPERS, ARCHIVE, and CONTACT US. The main content area is titled 'WELCOME TO IJERCT' and contains a detailed description of the journal's scope, which covers various engineering fields. Below this, the 'Scope of the Article' is defined as all engineering sciences. The publisher's name, address, and email are also provided. On the right side, there are several call-to-action boxes: 'CALL FOR PAPERS' with submission and acceptance details; 'FOR AUTHORS' with links for call for papers, instructions, and manuscript submission; 'IJERCT PUBLICATIONS' with a link to the current issue; 'DOWNLOADS' with links for author guidelines, manuscript templates, and copyright transfer; and 'CONTACT US' with links for contact, subscription, and copyright infringement claims. At the bottom, there are sections for 'NEWS & EVENTS' and 'OUR JOURNAL INDEXED IN'.





S.P.B. PATEL
ENGINEERING COLLEGE

SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

2. First Page of Publication:

International Journal of Engineering Research in Current Trends (IJERCT)
ISSN: 2582-5488, Volume-3 Issue-3, Jun 2021

FIXED POINT THEOREMS IN D^* METRIC SPACES FOR EIGHT WEAKLY COMPATIBLE MAPPINGS FOR INTEGRAL TYPE MAPPINGS

SHEFAL H. VAGHELA, SHAILESH T PATEL*

The Research Scholar of Pacific University, Udaipur (Rajasthan), India.

*S. P. B. Patel Engineering. College, Linch (Mehsana), India.

ABSTRACT: In the Present Paper, we give some new definitions of D' -metric spaces and we prove a common Fixed Point theorems for Eight mappings under the condition of weakly compatible mappings in complete D' -metric spaces. We get some improved versions of several fixed point theorems in complete D' -metric spaces.

Keywords: D-metric, contractive mappings, Complete D' -metric spaces, common fixed point theorems.

1. INTRODUCTION AND PRELIMINARIES

In 1922, the polish mathematician, Banach, Proved a theorem which ensures, under appropriate conditions, the existences and uniqueness of a fixed point. His result is called Banach's fixed point theorem or the Banach Contraction principle. This theorems Provides a technique for solving a variety of problems of applied nature in mathematical science and engineering. Many authors have extended, generalized and improved Banach's Fixed point Theorem in Different ways. In [21], Jungck introduced the notion of compatible mappings which are more general than commuting and weakly commuting mappings. This concept has been useful for obtaining more comprehensive fixed point theorems. Dhage [8] introduced the concept of generalized metric or D-metric spaces and claimed that D-metric convergence defines a Hausdorff topology and that D-metric is sequentially Continuous in all the three variables. Many authors have taken these claims for granted and used them in proving fixed point theorems in D-metric Spaces. Rhoades[21] generalized Dhage's contractive condition by increasing the number of factors and proved the existence of unique fixed point of a self -maps in D-metric space. Recently, motivated by the concept of compatibility for metric space, Singh and Sharma[27] introduced the concept of D-compatibility of maps in D-metric space and proved some fixed point theorems using a contractive condition. Unfortunately, almost all theorems in D-metric space are not valid [18,19,20] . Fixed Point Theorems property tolerates the condition of closeness of the range subspaces of the involved mappings. In 2011, the new notion of Common Limit in the range property (shortly property) was given by Sintunavarat and Kumam [30] that does not enforce the above-mentioned conditions. Moreover, the significance of property reveals that closeness of range subspaces is not essential. Using these two important notions many fixed point theorems were established [1]. One of the most pleasant generalizations of Banach principle is the Branciari fixed point theorem for a single mapping satisfying an integral type inequality. After that, serval researchers ([10,11,33], etc.) generalize the result of Branciari in ordinary metric spaces. Many researchers study the applications of common fixed point theorems in complex valued metric spaces; see for instance [31] and the references therein. On the other hand, Liu et al. and Sarwar et al. [16] study the existence and uniqueness of common solution for the system of functional equations arising in dynamic programming with real domain.

Published By:
International Journal of Engineering
Research in Current Trends



3. Web link for Journal/book: <https://www.ijerct.com/papers/03-03/fixed-point-theorems-in-dmetric-spaces-for-eight-weakly-compatible-mappings-for-integral-type-mappings.pdf>

