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Research Paper

**Simulation Based Exploration of SKC Block Cipher Algorithm**

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| *\*Corresponding Author:* email1@authorname.com  ***Received****: 03/Nov/ 2022* ***Revised:*** *29/Nov/2022* ***Accepted****: 31/Dec/2022* ***Published****: 15/Jan/2023.* | ***Abstract:*** *NFTs (Non-Fungible Tokens) are unique digital assets created and traded via the blockchain technology. It allows us to have ownership rights of the digital assets, thus giving the owner transferrable rights. The first NFT was created in May 2014, but it only started gaining momentum amongst investors in the past few years. Since 2018, multiple NFT marketplaces have emerged. The target of this project is to create a decentralized NFT marketplace using IPFS, Solana, and a Coinbase wallet. NFTs (Non-Fungible Tokens) are unique digital assets created and traded via the blockchain technology. It allows us to have ownership rights of the digital assets, thus giving the owner transferrable rights. The first NFT was created in May 2014, but it only started gaining momentum amongst investors in the past few years. Since 2018, multiple NFT marketplaces have emerged. The target of this project is to create a decentralized NFT marketplace using IPFS, Solana, and a Coinbase wallet.*  Keywords: NFT, Blockchain, IPFS, Solana, Coinbase |

**1. Introduction (Size 12 Bold)**

Introduction (Size 10 Normal) should lead the reader to the importance of the study; tie-up published literature with the aims of the study and clearly states the rationale behind the investigation. It should state the purpose and summarize the rationale for the study and gives a concise background [1]. The literature review should logically lead to the statement of the aims of the proposed project and end with the aims and objectives of the study. The review should include the most recent publications in the field and the topic of the research is selected only after completing the literature review and finding some gaps in it. The last sentence should concisely state your purpose for carrying out the study or a summary of the results and it is concluded by explaining how the present study will benefit the community [2].

Use references to provide the most salient background rather than an exhaustive review. The last sentence should concisely state your purpose for carrying out the study or a summary of the results [2].

As a last paragraph of the introduction should provide organization of the paper/article (Rest of the paper is organized as follows, Section 1 contains the introduction of ………………. , Section 2 contain the related work of ……………, Section 3 contain the some measures of …………...., Section 4 contain the architecture and essential steps of ……………..., section 5 explain the ………….. methodology with flow chart, Section 6 describes results and discussion …...., Section 7 contain the recommendation of …………. and Section 8 concludes research work with future directions).

**1.1 Subheading-1 (Size 10 Bold)**

There should be at least 2 subheadings but no more than 10 subheadings under one heading.

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In this section, the author describes the previous research works in the form of title, problem statement, objectives, not repeat the information discussed in Introduction [3]. You should review at least 10 to 16 latest articles in the related work section, cite them properly, and list references in the reference section.

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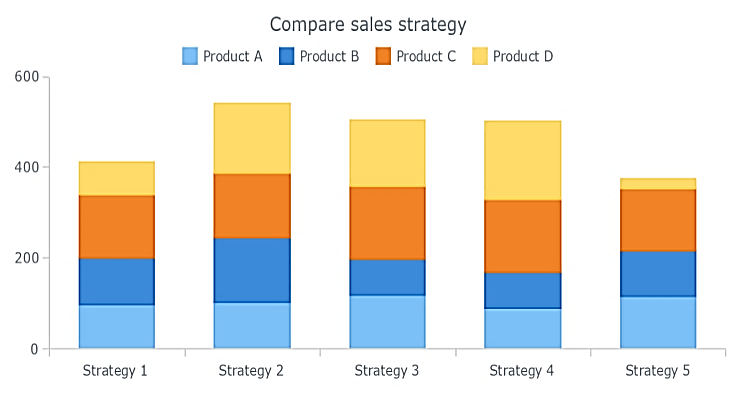
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Results should be presented in a logical sequence in the text, tables and figures. Repetitive presentation of the same data in tables and figures should be avoided. The results should not contain material appropriate to the Discussion. All **tables, graphs, statistical analyses and sample calculations** should be presented in this section. **Figures/Tables/Flowcharts/Equations/Formulas** should draw the pictures himself. Please do not give scanned equation/formula/Table.

The results should be discussed in relation to any hypotheses advanced in the Introduction. Comment on results and indicate possible sources of error. Place the study in the context of other work reported in the literature. Only in exceptional cases should the "Results and Discussion" sections be combined. Refer to graphs, tables and figures by number. This helps tie the data into the text in a very effective manner. Authors should also take future research and limitations into account in the Discussion section.

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All figures in the manuscript should be numbered sequentially using Arabic numerals (e.g., Figure 1, Figure 2), and each figure should have a descriptive title. The figure number and title should be typed with single-spaced, and centered across the bottom of the figure, in 8-point Times New Roman, as shown below. The figure captions should be editable and be written below the figures.



**Figure 1**. The caption of the figure (Size 8 Normal)

Tables should be numbered sequentially editable using Arabic numerals (e.g., Table 1, Table 2), and each table should have a descriptive title. The table number and title should be typed in normal type, single-spaced, and centered across the top of the table, in 8-point Times New Roman, as shown below.

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| Column1 | Column2 | Column3 |
| Row1\* | Row1 | Row1 |
| Row2 | Row2 | Row2 |
| Row3 | Row3 | Row3 |
| Row4 | Row4 | Row4 |
| Row5 | Row5 | Row5 |
| Row6 | Row6 | Row6 |
| Row7 | Row7 | Row7 |

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Equation/Formula should be in MathType so that it will be formatted. The Equation/Formula should be editable with no image format. Do not give scanned equation/formula. Write numbers (1,2,3,4,5…) and caption outside of equation/formula. All equation/formula should be typed in Times New Roman, Font size - 10 point. Do not give bold and italic equation/formula.

(1)



(2)



(3)



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Each manuscript should contain a conclusion section within 250-450 words which may contain the major outcome of the work, highlighting its importance, limitation, relevance, application and recommendation. Conclusion should be written in continuous manner with running sentences which normally includes main outcome of the research work, its application, limitation and recommendation. Do not use any subheading, citation, references to other part of the manuscript, or point list within the conclusion. In last paragraph author describes the future Scope for improvement.

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This statement should describe how readers can access the data supporting the conclusions of the study and clearly outline the reasons why unavailable data cannot be released.

Study Limitations Provide all possible limitation faced in the study which might significantly affect research outcome, If not applicable write, none.

**Conflict of Interest**

All authors are requested to disclose any actual or potential conflict of interest including any financial, personal or other relationships with other people or organizations that could inappropriately influence, or be perceived to influence, their work.  Otherwise, Authors declare that they do not have any conflict of interest.

**Funding Source**

Provide funding source, supporting grants with grant number. The name of funding agencies should be written in full. for example: “This work was supported by the ISROSET Research laboratory [grant numbers xxxx, yyyy]; the National Science laboratory [grant number zzzz”. If no funding source exists, write, none

**Authors’ Contributions**

Authors are required to include a statement of responsibility in the manuscript that specifies the contribution of every author. The level of detail varies; some disciplines produce manuscripts that comprise discrete efforts readily articulated in detail, whereas other fields operate as group efforts at all stages.

For Example- Author-1 researched literature and conceived the study. Author-2 involved in protocol development, gaining ethical approval, patient recruitment, and data analysis. Author-3 wrote the first draft of the manuscript. All authors reviewed and edited the manuscript and approved the final version of the manuscript.

**Acknowledgements**

All acknowledgments (if any) should be included at the very end of the manuscript before the references. Anyone who made a contribution to the research or manuscript, but who is not a listed author, should be acknowledged (with their permission).

**References (In IEEE Format)**

Author(s) are responsible for ensuring that the information in each reference is complete and accurate. Do not uses grey literature (unauthentic website, news portal, social media, Wikipedia etc.) as reference, only scholarly literature (Journal, online books, proceedings, patents, authentic websites with permanent archival policy) are acceptable references. Author should include sufficient recent (last 2 years) references in the article. All references must be numbered consecutively and citations of references in the text should be identified using numbers in square brackets [1]. The sentence punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]—do not use “Ref. [3]” or “reference [3]” except at the beginning of a sentence: “Reference [3] was the first . . . so son” and continuing in an ascending numerical order, from the lowest number to the highest. All references should be properly cited within the text; do not add only list of references without citation within the text.

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1. S. Willium, “Biological Sciences,” *International Journal of Scientific Research in Computer Science and Engineering*, Vol.**31**, Issue **4**, pp.**123-141**, **2012**. <http://dx.doi.org/xx.xxx/yyyyy>
2. R. Solanki, “Principle of Data Mining,” McGraw-Hill Publication, India, pp. **386-398**, **1998**.
3. M. Mohammad, “Performance Impact of Addressing Modes on Encryption Algorithms,” *In the Proceedings of the 2001 IEEE International Conference on Computer Design (ICCD 2001)*, Indore, USA, pp.**542-545**, **2001**.
4. S.K. Sharma, “Performance Analysis of Reactive and Proactive Routing Protocols for Mobile Ad-hoc N/W,” *World Academics Journal of Engineering Sciences*, Vol.**1**, No **5**, pp.**1-4**, **2013**.
5. S.L. Mewada, “Exploration of Efficient Symmetric AES Algorithm,” *Journal of Physics and Chemistry of Matierials*, Vol.**4**, Issue **11**, pp.**111-117,** **2015**.
6. A. Mardin, T. Anwar, B. Anwer, “Image Compression: Combination of Discrete Transformation and Matrix Reduction,” *International Journal of Scientific Research Biological Sciences*, Vol.**5**, No **1**, pp.**1-6**, **2017**.
7. H.R. Singh, “Randomly Generated Algorithms and Dynamic Connections,” *International Journal of Scientific Research in Biological Sciences*, Vol.**2**, Issue **1**, pp.**231-238**, **2014**.

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**Authoor-1** earned his B. Tech., M. Tech., and Ph.D. in physical science from IIT Bombay in 1998, 2002, and 2008, respectively. He is currently working as Professor in Department of Physical Science from IITRS, Bombay since 2010. He is a member of ISROSET since 2013, Life member of ACM since 2011 and a life member of the IIT Research Spectrum since 2015. He has published more than 50 research papers in reputed international journals including Thomson Reuters (SCI & Web of Science) and conferences including IEEE and it’s also available online. His main research work focuses on Cryptography Algorithms, Network Security, Cloud Security and Privacy, Big Data Analytics, Data Mining, IoT and Computational Intelligence based education. He has 15 years of teaching experience and 10 years of research experience.

Author’s formal photo

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