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| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5655** |
| Title of the Manuscript:  | **Robust Technique for Image Encryption and Decryption Using Discrete Fractional Fourier Transform with Random Phase Masking** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Procedia Technology 10 ( 2013 ) 707 – 714.**

**Available:** [**https://doi.org/10.1016/j.protcy.2013.12.413**](https://doi.org/10.1016/j.protcy.2013.12.413)

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | By addressing the critical need for secure image transmission, the chapter blends advanced mathematical tools with practical encryption techniques, offering a novel and robust framework. Its interdisciplinary nature connects digital security with modern computational methods, aligning well with the book’s vision of exploring emerging technologies that impact society. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | A Robust Image Encryption model based on Discrete Fractional Fourier Transform with Random Phase Masking |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | The abstract can be further improved by clearly stating the extent of its contribution to the identified problem, including quantitative metricss to highlight the performance and effectiveness of the proposed method. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The proposed model demonstrates originality and has the potential to contribute meaningfully to the field of secure image transmission. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The lack of comparison with recent state-of-the-art image encryption techniques is a drawback. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The overall use of English in the chapter is clear and understandable. However, to meet academic standards, minor improvements are recommended—particularly in the use of prepositions, punctuation, and sentence structure. A careful language review will enhance the readability and polish of the manuscript. |  |
| Optional/General comments | Accept with major correction.1. The chapter presents an innovative and original approach to image encryption using Discrete Fractional Fourier Transform with Random Phase Masking.2. The conceptual model is promising, but a clearly defined algorithmic approach or pseudocode is missing, which affects clarity and reproducibility.3. The performance evaluation is limited. It is recommended to include additional metrics such as:1. Entropy
2. Directional correlation
3. Scatter plot comparisons (original vs. ciphered images)
4. Histogram analysis of both original and ciphered images
5. Assessment of histogram uniformity of the ciphered image

4. Include comparative analysis with recent state-of-the-art encryption techniques to validate the significance of the proposed method.5. Discuss the robustness of the encryption method against common attacks (e.g., noise, cropping, brute-force).6. Visual comparisons of actual and ciphered images would further strengthen the demonstration of encryption strength.7. The language used is generally clear, but minor corrections are needed in:1. Use of prepositions
2. Punctuation
3. Sentence structure for improved academic quality
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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Suresh Babu V, Anna University, India**