Accepted Manuscript

Image Encryption Method based on Chaotic Fuzzy Cellular Neural Networks

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PII: S0165-1684(17)30163-9
DOI: 10.1016/j.sigpro.2017.05.002
Reference: SIGPRO 6469

To appear in: *Signal Processing*

Received date: 28 December 2016
Revised date: 29 April 2017
Accepted date: 2 May 2017

Please cite this article as: K. Ratnavelu, M. Kalpana, P. Balasubramaniam, KokSheik Wong, P. Raveendran, Image Encryption Method based on Chaotic Fuzzy Cellular Neural Networks, *Signal Processing* (2017), doi: 10.1016/j.sigpro.2017.05.002

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Highlights

- Modifying the original FCNN for application in image encryption;
- Introducing dependency between the encryption process and the plaintext image (i.e., pixels) to defeat chosen-plaintext attack, and;
- The proposed method has a key sensitivity in the order of 10^{-10} to achieve adequate security robustness, which successfully passed the NIST SP 800-22a tests.

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