Abstract

In this paper, I propose a method for efficient coding of images using cellular automata. This method allows us to describe each selected group of neighboring cells of bend points in the contour. This method enables us to compress the image code. These groups will be separated to objects in an image by using cellular automata which uses bend-points determination.

References

- Stepan Belan, Sergey Yuzhakov. Machine Vision System Based on the Parallel Shift Technology and Multiple Image Analysis. / Computer and Information Science; Vol. 6, No. 4; 2013, p. 115-124. - ISSN 1913-8989 E-ISSN 1913-8997. - Published by Canadian Center of Science and Education. DOI: 10.5539/cis.v6n4p115.
Encoding Binary Images using Cellular Automata for Data Compression

---

- Vatolin D. Ratushnjack A. Smirnov, V. Yoockin Data compression methods.
- Salomon D. Data compression, image and sound. Technosphere, 2004. p. 368. (Translated from Russian)

Index Terms

Computer Science

Security
Keywords

Image  cellular automata  code  contour.