

**Міністерство освіти і науки України
Дніпропетровський національний університет
імені Олеся Гончара**

**Всеукраїнська науково-практична конференція
молодих вчених і студентів**

**Перспективні напрямки сучасної електроніки,
інформаційних і комп'ютерних систем**

25–27 листопада

УНІВЕРСИТЕТ

**Дніпропетровськ
2015 р.**

krasilenko@mail.ru

() [1-3],

[1]

[2],

[3],

Mathcad

(-).

() AN

A

h

1-2

2

A (128*128),

AN,

ASB ASBN,

KPX KPY,

KPX*ASB*KPY,

SPXYN7 – SPXYN0
 (.1).

C_ASB, C_ASBN

SPXY7 – SPXY0,
 CAXY CAXYN

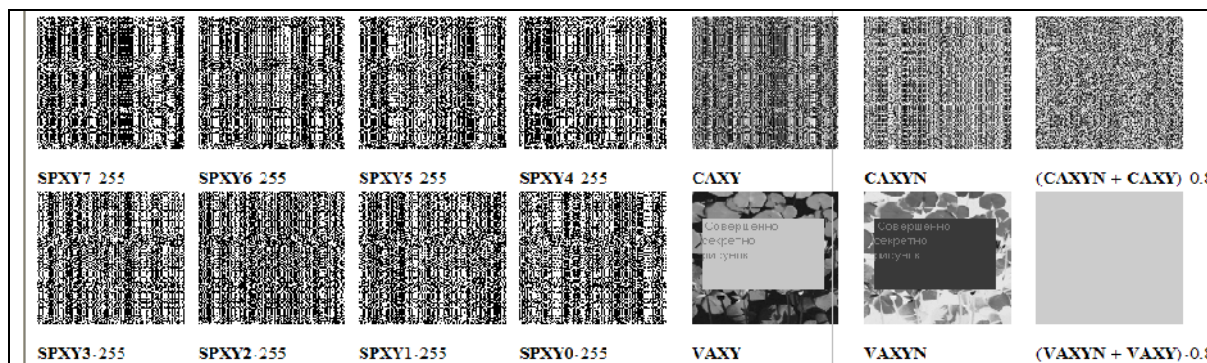
VAXY, VAXYN,

AN. (7,5-
 7,8). A AN , [2],

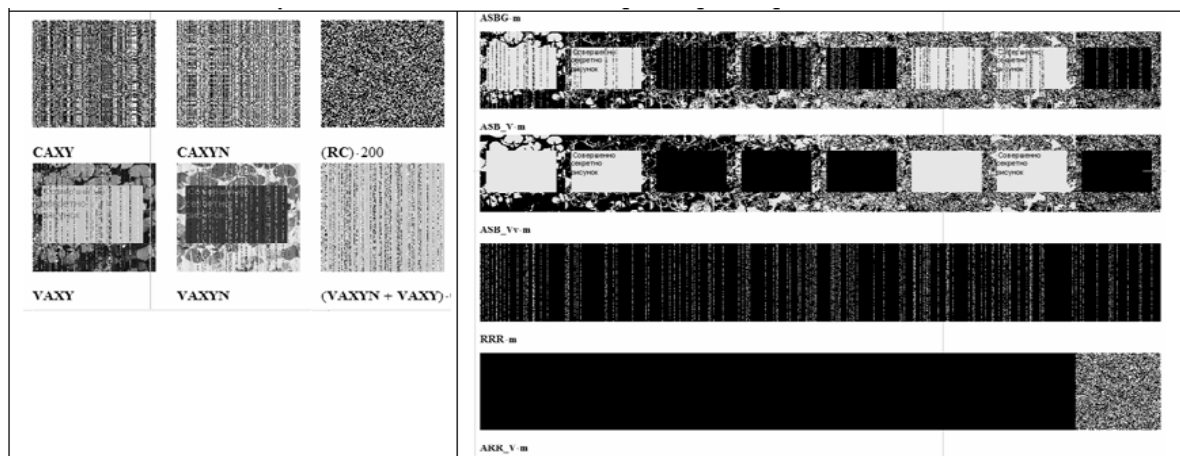
32*32,
 128*128! , 2,

(VAXY VAXYN) , 255,

8 , CAXYG CAXY,
 CAXYG ASBG,
 C_ASB GO ()
 ASB_V, ASB_Vv,
 RRR, ARR_V, GO.



.1. (CPXY7-CPXY0), CAXY CAXYN, VAXY (A!), VAXYN (AN!) , 0,8.



.2.

1. //
2. //
3. //

SIMULATION OF CRYPTOGRAPHIC TRANSFORMATIONS IMAGES BASED ON OF MATRIX BITPLANE DECOMPOSITION AND MATRIX MODELS OF PERMUTATION WITH VERIFICATION INTEGRITY

V. Krasilenko, D. Nikitovich.

Vinnitsa Social Economy Institute of University "Ukraine".

krasilenko@mail.ru

Designed matrix models of permutations for cryptographic transformations of images are proposed and in Mathcad programmed, monitored and evaluated. In the work are given results of modeling of matrix models of cryptographic transformations of images with matrix bit-plane decomposition and mixing. The simulating results for images with 128 * 128 and 512 * 512 pixels are shown. The developed matrix models of permutations based on matrix bit-plane decomposition for images cryptographic transformations are shown, that they have high entropic quality criteria, high performance for direct and inverse transformations.

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MATHEMATICA		117	-
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86	-	121	-
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WEB-		127	-
91	-	129	-
93	-	132	-
95	-	133	-
98	-	134	-
100		137	-
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CdMgTe/Cu(In,Ga)Se₂
 201 M. Solovyov, A. Kashuba, O. Bovgyra, A. Franiv.
Lattice vibrations of crystals A₄BX₆: RAMAN SPECTRA

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SnTe:Sb
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GeO2
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ZnS