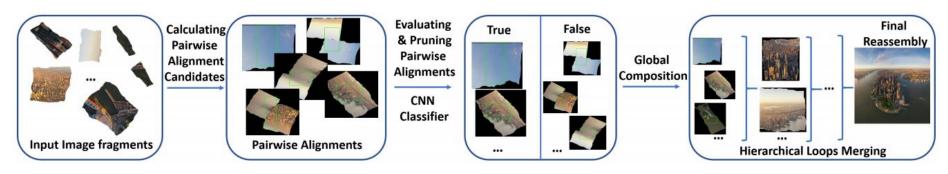
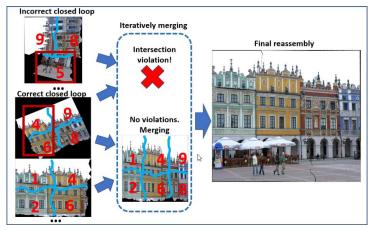
PODSTAWY TELEINFORMATYKI

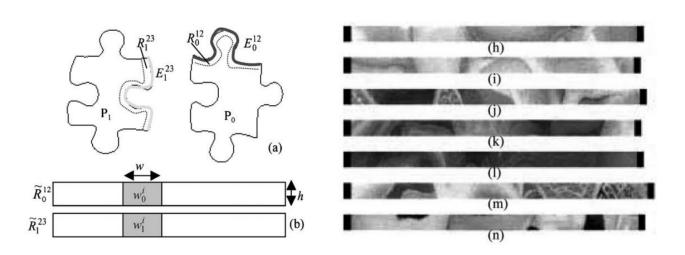
Paweł Przybyłowski Bartosz Ptak Mikołaj Walkowiak Układarka P

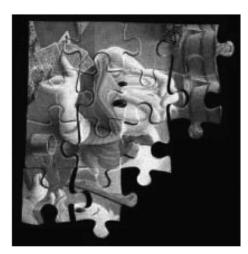
"JigsawNet: Shredded Image Reassembly using Convolutional Neural Network and Loop-based Composition" Canyu Le1 and Xin Li





"A shape and image merging technique to solve jigsaw puzzles" Feng-Hui Yao and Gui-Feng Shao



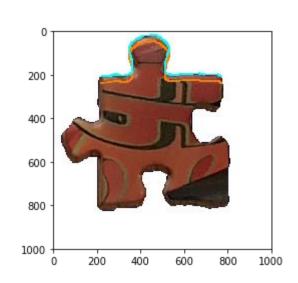


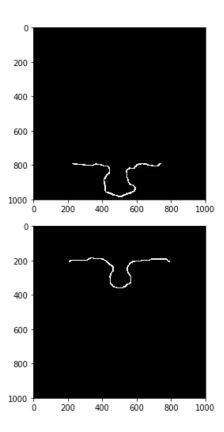
"A shape and image merging technique to solve jigsaw puzzles" Feng-Hui Yao and Gui-Feng Shao

	Piece type	Boundary description	Edge 0	Edge 1	Edge 2	Edge 3
R	R_0	CCLL	E.V	E.V	None	None
	R_1	VCLL	E.C	$\boldsymbol{E}.V$	None	None
	R_2	CVLL	E.V	E.C	None	None
	R_3	VVLL	E .C	E.C	None	None
E	E_0	CCCL	E.V, R.V	I.V	E.V, R.V	None
	E_1	CVCL	E.V, R.V	I.C	E.V, R.V	None
	E_2	VCCL	E .C, R .C	I.V	E.V, R.V	None
	E_3	CCVL	E .V, R .V	I.V	E .C, R .C	None
	E_4	VVCL	E .C, R .C	I.C	E.V, R.V	None
	E_5	CVVL	E.V, R.V	I.C	E .C, R .C	None
	E_6	VCVL	E .C, R .C	I.V	E .C, R .C	None
	E_7	VVVL	E .C, R .C	I.C	E .C, R .C	None
I	I_0	CCCC	E.V, I.V	E.V, I.V	E.V, I.V	E.V, I.V
	I_1	VCCC	E .C, I .C	E.V, I.V	E.V, I.V	E.V, I.V
	$+$ I_2	VCVC	E .C, I .C	E.V, I.V	E .C, I .C	E.V, I.V
	I_3	CVVC	E.V, I.V	E .C, I .C	E .C, I .C	E.V, I.V
	I_4	VVVC	E .C, I .C	E .C, I .C	E .C, I .C	E.V, I.V
	I_5	VVVV	E .C, I .C	E .C, I .C	E .C, I .C	E.C, I.C

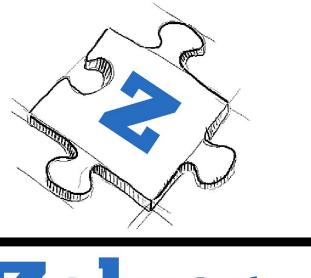
Działanie na krawędziach (cv2.matchShapes) i kolorach





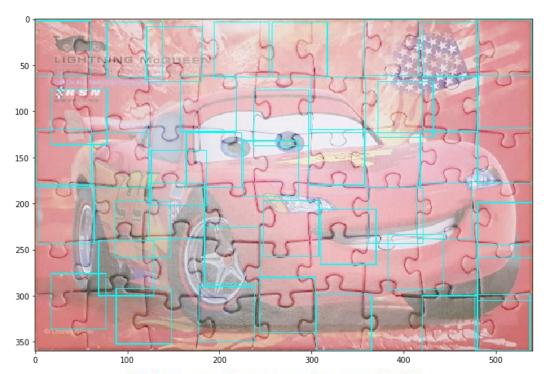


Zolver (C. Cetre, D. Castéran, J. Lugand, H. Rybinski)



Zolver

Funkcja matchTemplate z biblioteki OpenCV



Błąd: 0.444 (poprawnych/wszystkich)

Jak próbowaliśmy usprawnić?

- Testowanie różnych metod dopasowywania.
- Zamiana na skalę szarości, HLS, HSV.
- Wyrównanie histogramów kolorów.
- 4. Zmiana rozdzielczości obrazków.
- 5. Adaptacyjny rozmiar wzoru dopasowania.
- 6. Korekcja Gamma.

GITHUB → bartoszptak → puzzlesolver

https://github.com/bartoszptak/PuzzleSolver