Thermal pictures of human faces recognition by Kohonen Neural Network

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1 Kohonen Neural Network theory

2 Implementation

- 2.1 Learning
- 2.2 Variables
- 2.3 Retrieval
- 2.4 GUI
- 3 Learning and testing data sets
- 3.1 Learning data
- 3.2 Test data
- 4 Recognition results
- 4.1 No change
- 4.2 Temperature
- 4.2.1 Global
- 4.2.2 Partial
- 4.3 Head rotation
- 4.4 Hidden faces
- 4.5 Mixed changes
- 4.5.1 Winter hat and increased temperature
- 4.5.2 Rotated with increased temperature
- 5 Conclusion