Cognition for Enhanced Biometric Authentication
ABSTRACT

• Enhanced authentication of biometric images is presented, with additional improved quality of the image in sense of improved error correction.

• The algorithm is based on the idea on synergic effect of channel coding and cryptographic mechanisms used for authentication, e.g. Message Authentication Codes.

• The algorithm is not limited on image processing, but used for biometric authentication as a study case.
EXISTING SYSTEM

• Today, in the era of faking news and serious security threats in many life's situations, it becomes a „must” to develop algorithms which will help successful authentication of transmitted or stored images.

• One of the mostly wanted applications nowadays is biometry, which is needed in every day’s life almost all personal documents include biometric data like fingerprints, eyes and other parts of the Region of Interest.
PROPOSED SYSTEM

• This paper presents a novel algorithm for the enhanced authentication of biometric images, with improvement of the overall image quality.
• For this purpose, the cooperation between channel coding and cryptography has been used channel decoding for the improvement of decryption results and, vice versa, cryptography for the improvement of channel decoding the so called Joint Channel Coding and Cryptography.
HARDWARE REQUIREMENTS

- Processor: Intel
- Speed: 1.1 Ghz
- RAM: 256 MB (min)
- Hard Disk: 20 GB
- Monitor: SVGA
SOFTWARE REQUIREMENTS

• Tool - MATLAB R2012
• Operating system - Windows Xp, 7
REFERENCE


