

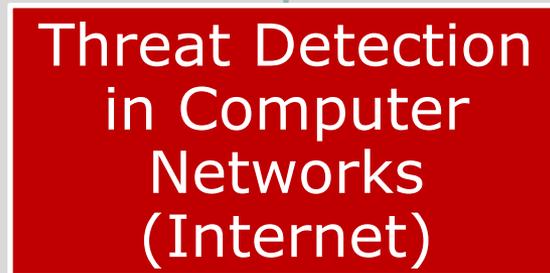


INDECT

Intelligent information system supporting observation, searching and detection for security of citizens in urban environment

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Intelligent
Monitoring
for Threat
Detection

Objectives

Search engine
based on
watermarks

New techniques:

- Query by Example
- Pattern recognition
- Distributed databases
- Contour extraction
 - INACT methods

Platform for
intelligent
processing of
information

Methods

- 1) Dangerous tools detection
- 2) Detection of crying for help, broken glass
- 3) Detection of unattended luggage
- 4) Monitoring of vehicles used for crime
- 5) ...

Results

Threat
Detection
in
Computer
Networks
(Internet)

Objectives

Relationship
mining tools

Semantic
search

Software
agent
technology

Methods

- 1) Detection of trafficking of humans, organs
- 2) Detection of break into virtual banks
- 3) Search engine for child pornography
- 4) ...

Results

Data
Protection
and
Privacy
Protection

Objectives

Watermarking
techniques

Cryptography

Quantum
cryptography

Methods

1) Protection of
personal data using
watermarking and
cryptography
2) Protection of ID
of persons and
objects in image and
video sequences
3) ...

Results



THREAT DETECTION

- INDECT



Real environment
Virtual environment

- INDECT



DETECTION OF SOURCE OF THREAT

- INDECT



IDENTIFICATION OF SOURCE (recognition of persons generating threat)

- SECURITY SERVICE,
POLICE

Step 1

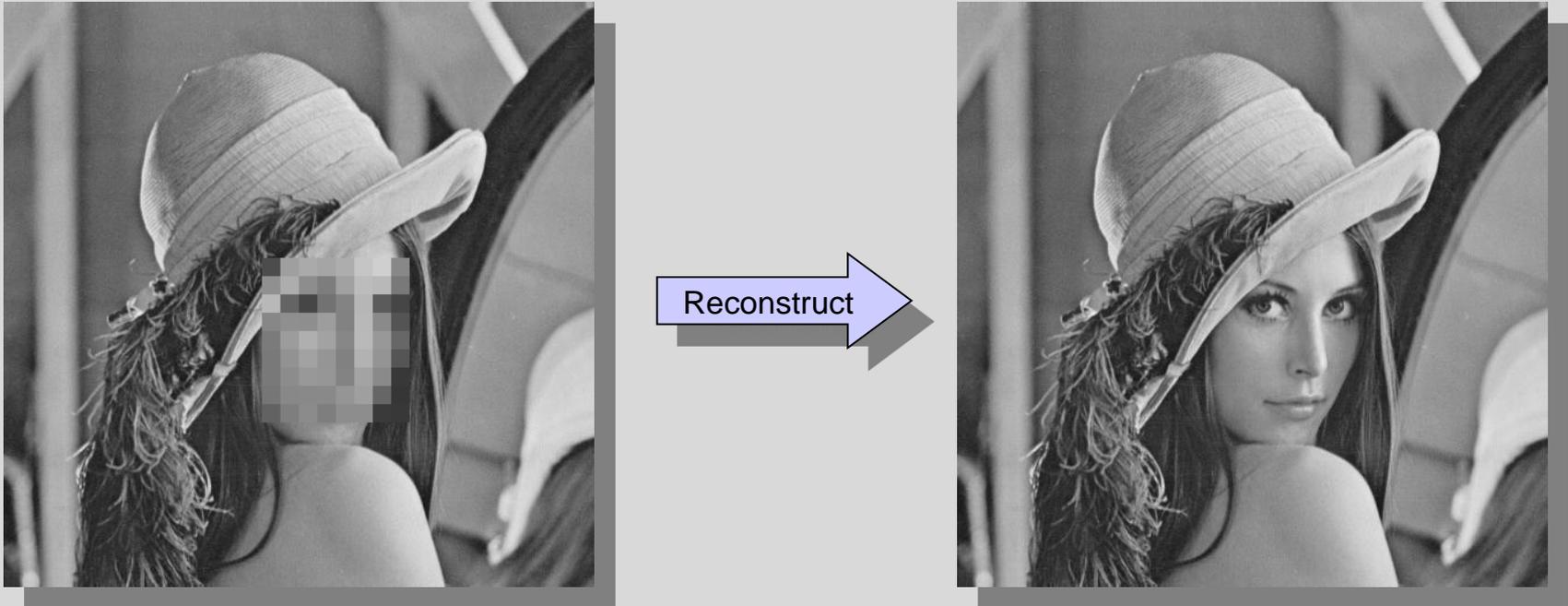
Step 2

Step 3

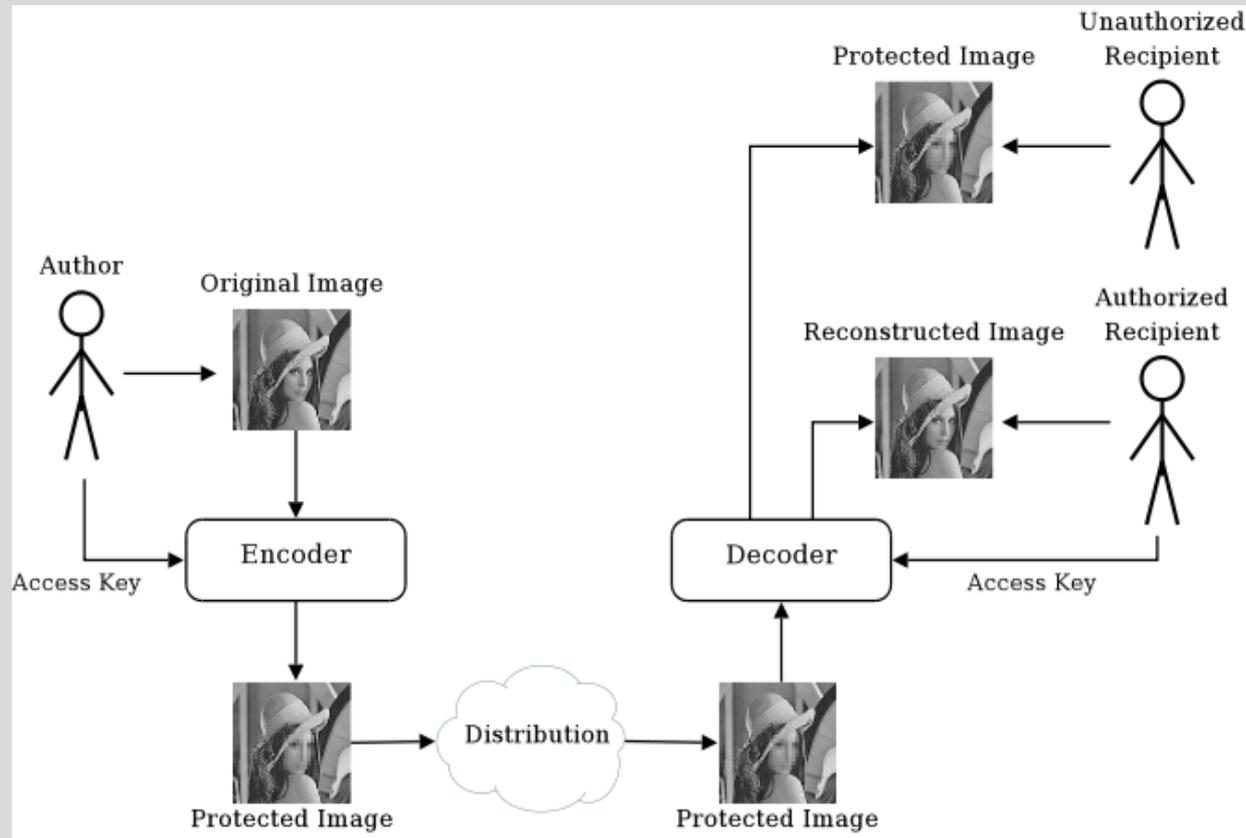
INDECT
doesn't deal
with and is
not involved
in



- 1) Collecting of personal data
- 2) Recording of mobile calls
- 3) Collecting of DNA codes
- 4) Satellite collecting of data
- 5) Collecting data from TV
- 6) ...



- Censorship method can be customized (e.g., pixelisation, blurring)
- High quality and high performance reconstruction
- Suitable for real-time applications



- The censored image can be viewed in ordinary image viewers
- For the reconstruction to succeed a dedicated **decoder** and a secret **access key** are needed

- Obligation to get an informed consent regarding participation in the research especially related to security purposes
- Review of each Deliverable with respect to ethical issues
- Avoid collecting sensitive personal data

Actions Undertaken

