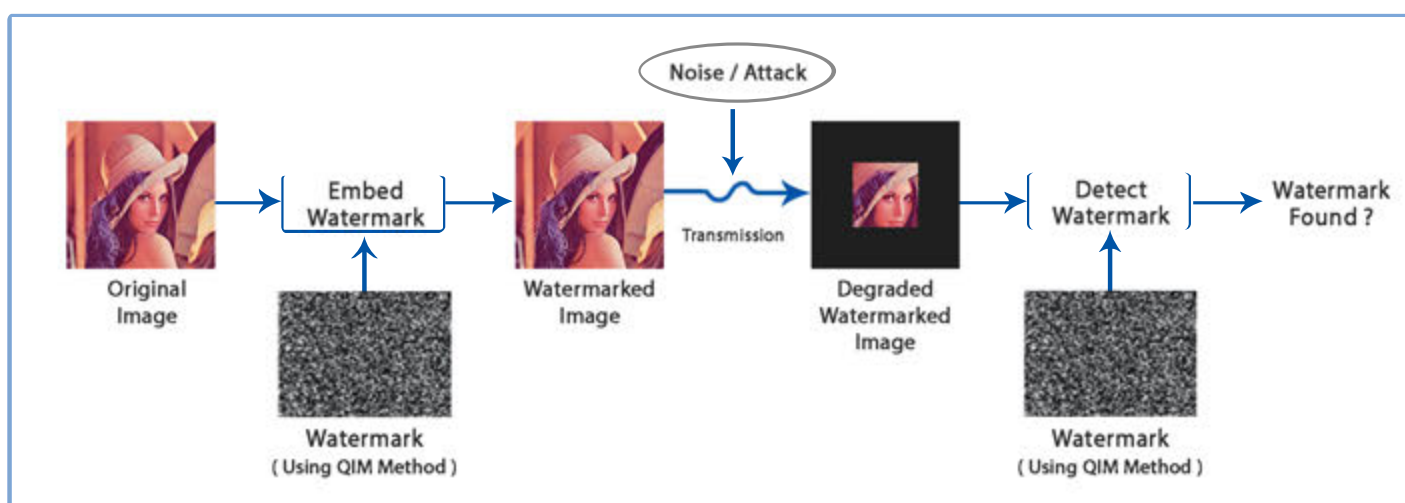


Objectives :

- ☐ Implementation of a Watermarking Method
- ☐ Développement of an Android Application
- ☐ Analysis of mark & detection scores

A Necessity in Content Protection

- Embedding an information into a digital signal in order to retrieve it and certify the authenticity of the image after transmission



QIM Method = Watermark embedded into a projection of the signal and inserted in the DC after a block selection based on an energy criterion.

Auteurs

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Implemented into Mobile Devices

- From C/C++ implementation on computer to an android app.

Partenaires

Le département ARTEMIS

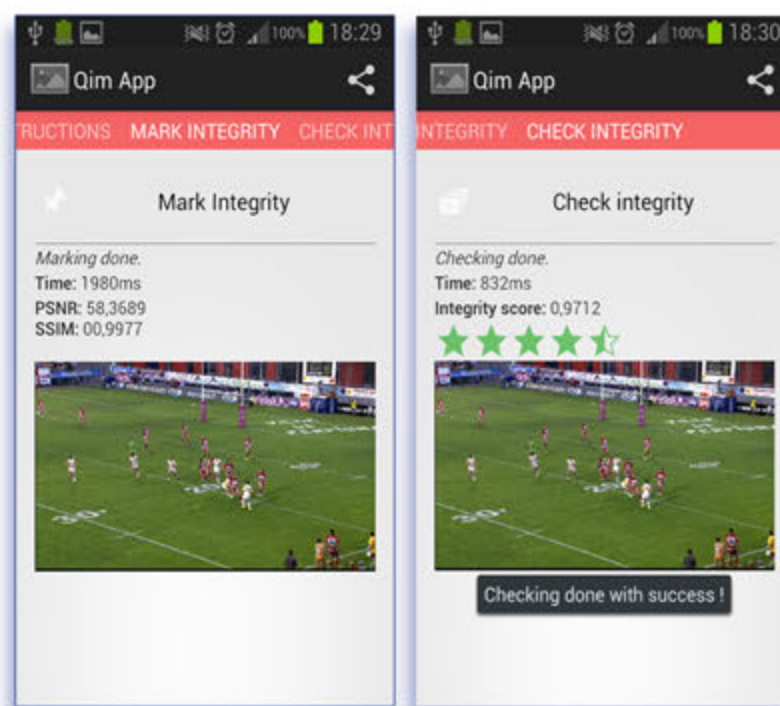


(Advanced Research and Techniques for Multidimensional Imaging Systems)



Features :

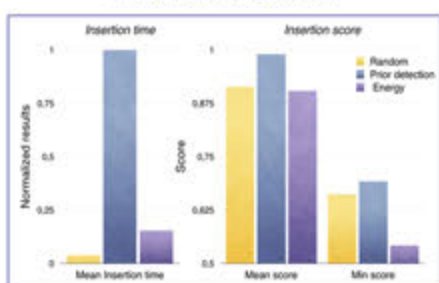
- Marking an Image with QIM method
- Checking the integrity of the content
- Sharing the Image to a friend
- Returning performances and Usability



With convincing performances

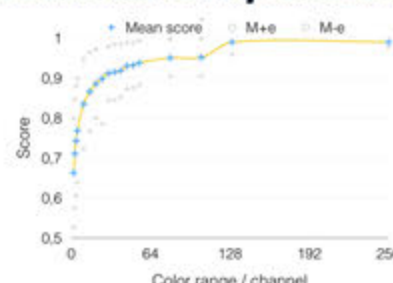
For a Sample of 166 various pictures

Performances



Insertion time usually less than 1s
Test 3 criteria for selection

Robustness to requantization



Transparency



Mean PSNR = 57.05 and SSIM = 0.9977
Barely visible artifacts