

PROTECTION OF JPEG COMPRESSED E-COMICS BY SELECTIVE ENCRYPTION

Mickaël Pinto
Mickael.Pinto@lirmm.fr

William Puech
William.Puech@lirmm.fr

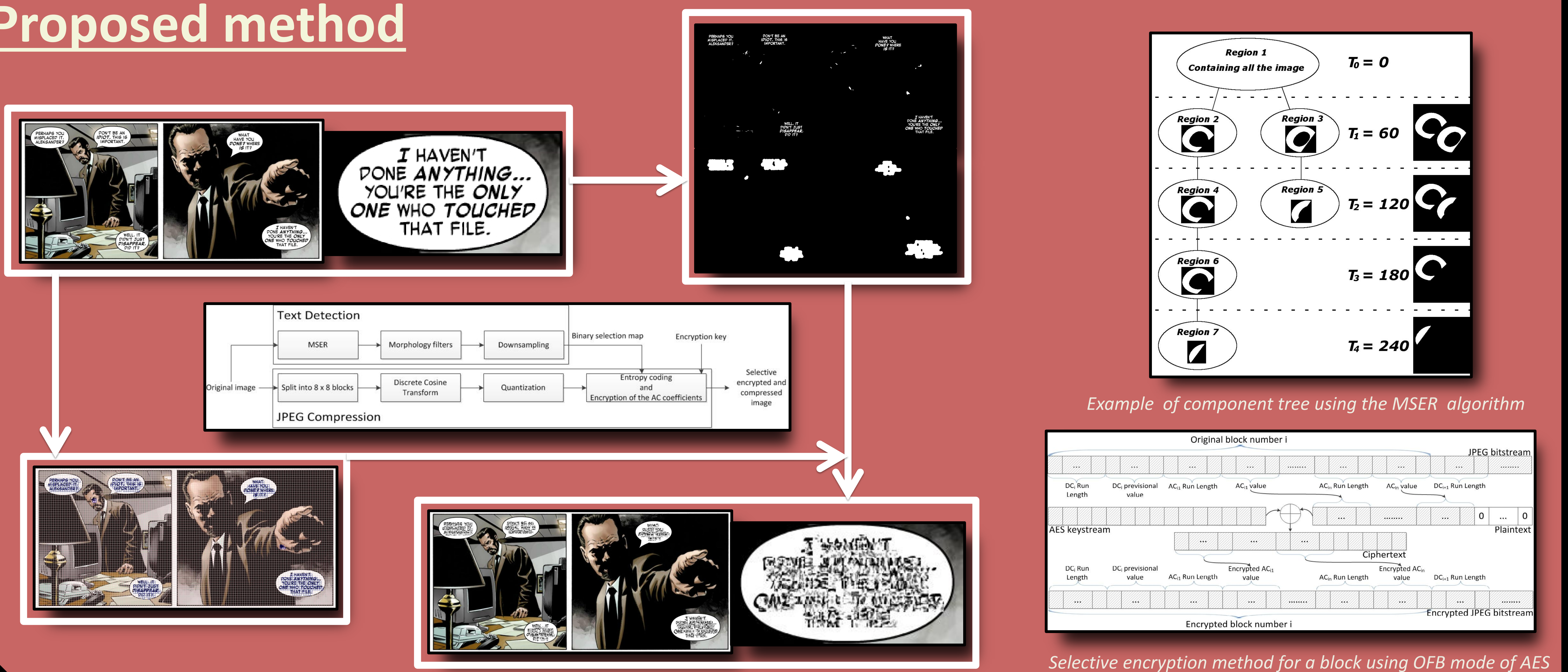
Gérard Subsol
Gerard.Subsol@lirmm.fr

University of Montpellier / CNRS, FRANCE

Introduction

- More and more e-comics are available on tablets, smartphones on the Web
- Current DRM technologies are mainly based on encryption and a dedicated reading application
 - Another solution would be to integrate the DRM system directly into the image itself:
 - Stored in a standard format such as JPEG;
 - No specific software to develop;
 - Any piracy attacks aiming to modify the DRM will distort the image content.
 - Algorithm for reversible selective encryption during the JPEG compression process.

Proposed method



Experimental results



Conclusion & Perspectives

- A selective encryption method compatible with JPEG
- An efficient alternative to classic DRM systems for e-comics
- The decoding step and the processing of large text

