Abstract

The images authentication transmitted through the communication networks must verify the proof of the originality and robustness against the hacker attacks. The existing techniques such as the cryptographic methods are not sufficient. An effectiveness and robust solution is proposed in this paper. This solution is based on the watermarking of the video and especially the Motion JPEG stream. We focused on one of the major properties of the JPEG image which is the quantization matrix. The watermarking is performed on this matrix. We detail the obtained results against several attacks.
Motion JPEG Video Authentication based on Quantization Matrix Watermarking: Application in Robotics


Index Terms

- Computer Science
- Multimedia

Keywords

Mjpeg Video Stream  Quantization Matrix  Watermarking  Attacks.