End User and Signal Processing: a successful synergy towards the assessment of forensic tools

Special Session in

1st ACM(*) Workshop on Information Hiding and Multimedia Security
June 17 - 19, 2013
Montpellier, France

Chair: Marco Carli – Università degli Studi Roma TRE
Co-organizers:
    Federica Battisti – Università degli Studi Roma TRE
    Patrick Le Callet – Polytech Nantes

Introduction: "The media wants to sell you something" is a statement that helps us in understanding how the role of the media significantly changed in recent years: at first it was employed for sharing information while now it has a large application in modeling people's opinion. A very common strategy is the use of media for convincing people to buy/get products and services. Recently, social media based on e-dissemination, such as forums, wikis, and blogs, are playing a remarkable role in influencing consumers' buying trends. The polarization based on the use of media can be achieved through ad-hoc modifications of the contents. Nowadays, an exhaustive list of every photo manipulation, would be nearly impossible to write.

The unfair use of media or its manipulation has suddenly gained importance with the e-commerce/Internet-generation advent: easy-to-use and freely available software for editing text or manipulating images in a professional-like style, leads to a significant amount of modified information. In recent years, mathematical, statistical and computational science methods have found extensive applications in developing new procedures for crime investigation, prosecution and the enforcement of law. Signal processing-based methods have also become important tools for performing certain forensic functions.

The goal of this special session is to provide updated overview of the latest trends and developments in Forensics and to start a multi-disciplinary discussion for understanding the impact of the end user on the signal processing based forensic tools.

In particular:

- To have expert in human vision or human interaction for understanding the impact of user in the effectiveness of forensic tools
- Human Vision inspired Signal processing methods for forensics applications
- Exploiting user in forensics application
- Crowd based forensic tools
- Unsupervised and supervised forensic tools
- User validation for forensic tools
- Forensic techniques limit
- Quality assessment of forensic tools

Important date:
Submission deadline: January 25, 2013
Acceptance notification: April 2, 2013
Camera Ready submission: May 4, 2013
Workshop: June 17-19, 2013

(*) ACM Preliminary approval requested