



*Call for Papers*

## **Special Issue on**

### **Data Security in Multimedia Modeling**

Springer Journal Multimedia Tools and Applications

Editor-in-Chief: Borko Furht

<http://www.springer.com/journal/11042>

#### **✚ Summary and Scope:**

The volume of multimedia data we handle on a daily basis is growing exponentially due to the availability of ubiquitous and cheap sensors, sharing platforms, and new social trends. State-of-the-art media modeling techniques have proven to be effective for interpreting this preponderance data. With the ever-increasing speed of generating, processing, and sharing multimedia data, the necessity to ensure the security of these multimedia data has become a challenging and unavoidable issue. The security in multimedia modeling, as well as guaranteeing the timely delivery of multimedia content to a rich variety of end users and portable devices, are important yet challenging problems in multimedia applications. As an example, due to the inherent shortcoming in security, the voluminous amount of data distributed on almost all multimedia streams make the conventional encryption techniques highly inefficient.

This special issue will focus on the most recent progress in solving security problems in multimedia modeling. We aim at encouraging research and promoting activities contributive to different types of cutting-edge techniques toward multimedia data security. The primary objective of this special issue is to foster focused attention on the latest research progress in this interesting yet important area. We target the researchers and practitioners from both the industry and academia. The list of possible topics includes:

- Data security including digital watermarks and encryption;
- Copyright issues for multimedia data, DRM, forensic watermarking;
- Multimedia-based computer forensics (e.g., crime scene investigation, user profiling);
- On forensic utilization of biometrics;
- Data hiding, stenography, and steganalysis;
- Trust and privacy issues in media systems;
- Visual cryptography & secret image sharing system;
- Security and privacy of multimedia data in cloud computing;

- Security and privacy of multimedia data in mobile devices;
- Cryptography, authentication, and access control for multimedia data in cloud;
- Multimedia data security in sensor network and mobile Internet;
- Multimedia data security in social application and networks;
- Content-based multimedia information retrieval;
- Modern computing methods for multimedia systems and authentication of multimedia content;
- Surveillance and compound security, object tracking and threat detection using multimedia data analytics;
- New statistical and perceptual models for multimedia content modeling;

#### ✚ Submission Guideline

Authors should prepare their manuscript according to the Guide for Authors available from the online submission page at

<http://www.springer.com/computer/information+systems+and+applications/journal/11042>. All the papers will be peer-reviewed following the Multimedia Tools and Applications reviewing procedures.

#### ✚ Important Dates:

- Paper submission due: Sep. 1, 2016
- Revision: Nov. 1, 2016
- Final decision: Jan. 1, 2017

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