

CALL FOR PAPERS FOR SPECIAL SESSION IN DSP2009

Submissions are invited for a special session on “**Securing Media for the Next Centuries: from Digital Watermarking, Fingerprinting and Hashing to Secure Archival Architectures**” to be held at the 16th International Conference on Digital Signal Processing (DSP2009) in Santorini, Greece, July 5-7, 2009.

Digital resources and documents have become a great part of our culture, as many cultural and intellectual goods are “born-digital” – existing only in digital form. Therefore digital long-term preservation is sustaining our cultural heritage for the future. Because of this very importance digital preservation is tangled by several national and international, governmental projects. Preserved resources and goods are only useful if their integrity and authenticity can be proven at any time. Although usually not made with the explicit intention to ensure integrity and authenticity in mind, in most cases both can be proven nevertheless for non-digital entities by their immanent characteristics. By their very nature, this is not the case for digital entities. Additionally, digital preservation must also ensure the integrity and authenticity of the entire preservation environment over a long term. This further imposes issues regarding the objective of digital long-term preservation to preserve for at least 100 years in combination with the fast-paced developments in information technology. Many means of security used today will be useless or even long forgotten in 100 years.

This special session on “Securing Media for the Next Centuries: from Digital Watermarking, Fingerprinting and Hashing to Secure Archival Architectures” to be held in Santorini during the 2009 16th International Conference on Digital Signal Processing (July 5 – July 7, 2009), is a dedicated session that aims to discuss and analyze potential media security mechanisms and security architecture challenges for long-term preservation and archival applications. The special session opens the possibility for closer interactions among researchers and users communities in this emerging research field. We expect the workshop to motivate this research and to establish fruitful relationships with the key actors from academia, industry, and government providing an excellent opportunity for them to meet and discuss their ideas. Research topics are solicited in the broad areas of Social Media, but are not limited to:

- Requirements, models, approaches and architectures for long term media preservation
- Security mechanisms for integrity and/or authenticity verification:
 - from electronic signatures to
 - watermarking, fingerprinting and
 - identification with perceptual hashing and media forensics
- Practical system challenges and best practice exhibiting data integrity and authenticity
- Secure emulation and migration strategies for long term preservation
- Legal and business issues as well as their interaction with technological development
- Security evaluation and benchmarks with focus on long term preservation

All accepted papers will be published in the conference proceedings and will be available for online access via IEEE Xplore.

<i>Important Dates</i>	
Deadline for paper submission – Special Session	February 15, 2009
Acceptance Notification	March 15, 2009

Questions about the session should be sent to the session organizers:

Jana Dittmann, Otto-von-Guericke University Magdeburg, Germany, E: jana.dittmann@iti.c.s.uni-magdeburg.de
Claus Vielhauer, Brandenburg University of Applied Sciences, Germany, E: vielhaue@fh-brandenburg.de

Authors of papers are invited to submit original contributions, not exceeding eight (8) pages, including figures, tables and references. The submission instructions can be found at www.dsp2009.org. Please note that all submissions will be peer-reviewed for quality and applicability. The authors should submit the full camera-ready paper, following the general Call for Papers instructions, at:

<http://www.dsp2009.org/default.asp?pg=submission&lng=en>

A copy of the paper should be sent additionally to the online submission system as an email attachment (in PDF format) to jana.dittmann@iti.c.s.uni-magdeburg.de with the email subject “Submission Special Session DSP2009 - Securing Media for the Next Centuries”.