

XML Multimedia Security

Fecha:

Martes 19 de noviembre de 2002 (sesión de mañana).

Capacidad de la sala asignada:

25 personas.

Organizadores:

Eduardo Fernández-Medina y Mario Piattini (Universidad de Castilla-La Mancha).

Contacto:

Para poder asistir a este tutorial es suficiente con enviar un correo electrónico a Eduardo.FdezMedina@uclm.es indicando el nombre del asistente.

Costes:

Gratuito.

Organización:

Este tutorial se enmarca dentro de las actividades llevadas a cabo en la Red Temática RETISSI (Red temática de seguridad en los sistemas de información), que surge de la colaboración entre la Excelentísima Diputación de Ciudad Real, la empresa Informáticos Europeos Expertos, la Universidad Politécnica de Cataluña, la Universidad de Deusto, la Universidad de Lleida, la Universidad de Murcia y la Universidad Rey Juan Carlos. RETISSI es una acción especial financiado por la Subdirección General de Proyectos de Investigación, Ministerio de Ciencia y Tecnología, con la referencia TIC2001-5023-E.

Resumen:

The objective of this tutorial is to point out novel XML-based approaches toward controlling access and fruition of multimedia content. Specifically, we shall address:

- (i) the role of XML-based metadata formats for describing multimedia content's structure and semantics,
- (ii) emerging XML models and languages for modelling access and fruition to multimedia
- (iii) XML-based techniques for implementing secure multimedia environments and for digital rights management.

Participants will get an overview about what the community has currently to offer, where are the improvements, the progress, and the open problems.

Program:

Introduction to XML-based metadata for Multimedia (SVG, SMIL, VoiceXML..)
Multimedia Content Authentication Using Digital Watermarking
Watermarking as a complement to digital right management techniques;
Modelling Multimedia Access and Fruition: key requirements
XML-based Techniques for Multimedia Security: Selective encryption of Multimedia data
XML-based Languages for Multimedia Access Control (MAC) and Digital Rights Management (DRM)
From DRML to XrML/Content Guard MAC/DRM Competitors: XACML, XrML, SAML
DRM Enforcement Infrastructure: PDP, PEP and authorities
Trends and Forecasts: Adding Semantics to Security and DRM Policies for Multimedia

Ponente:

Ernesto Damiani holds a Laurea degree in Electronics Engineering from the University of Pavia, and a Ph.D. in Computer Science from the University of Milan, Italy. He has held visiting positions at several Italian and foreign institutions, including George Mason University (US) and LaTrobe University (Australia). Dr. Damiani is currently an Associate Professor with the Dept. of Computer Technology, University of Milan, Italy. He has published more than 100 papers in the fields of semi-structured information management, Web-based knowledge management systems and XML security. He is the author (with R. Khosla and I. Sethi) of the book *Multi-Media Multi-Agent Systems*, published by Kluwer. Dr. Damiani is the Vice-Chair of ACM SIGAPP and the chair of the ACM Italian Chapter.