

Microsoft Research has several groups working on digital watermarking technologies including Watermarking of 3D Models, Image Watermarking, and Evaluation of Watermarking Techniques.

AT&T are running a text watermarking project employing Line Spacing and Secure Distribution.

The **Fraunhofer Center for Research in Computer Graphics**, USA, has a project on Audio Watermarking.

The **École Polytechnique Fédérale** (Federal Polytechnic School) **de Lausanne**, Laboratoire de Traitement du Signal (Signal Research Laboratory), Switzerland, have developed watermarking software called JK_PGS.

The **Institut Eurécom**, France, have an active Image and Video Group for MultiMedia Communications.

I.N.R.I.A. Rocquencourt, France, publish documents regarding numerical fractal information embedding techniques in *Projet Fractales*.

The **Massachusetts Institute of Technology**, Media Laboratories, USA, host the Data Hiding Homepage presenting many data hiding techniques (for image, audio and text). PixelTag (Joshua Smith and Barrett Comiskey) allows some bits of copyright information to be imperceptibly embedded in images and other media. The technique is based on *Modulation and Information Hiding in Images*, a paper presented at the First International Workshop on Information Hiding.

Secure and Highly Available Networking Group, Department of Computer Science, College of Engineering, North Carolina State University, USA, are running a project on Security and Copyright Protection for MPEG2.

Security Technology for Graphics and Communication Systems is a special interest group given to the development of security mechanisms and protocols adapted to the particularities of multimedia communication and cooperation, including access control for multimedia broadcasting systems (Pay-TV, Video-on-demand, etc), copyright protection and management for multimedia data, usage of voice and face recognition for authentication, and security services for hypermedia systems.

TALISMAN (Tracing Authors' rights by Labelling Image Services and Monitoring Access Network) aims to provide European Union service providers with a standard copyright mechanism to protect their digital products against large scale commercial piracy and illegal copying. One problem that has not found a solution yet is the one of how to realise copyright protection for digitally stored data.

Université Catholique (Catholic University) **de Louvain**, Laboratoire de Télécommunications et Télédétection (Telecommunications and Teledetection Laboratory), Belgium, hold regular presentations of their ACCOPI (Access Control and Copyright Protection for Images) project.

Université de Genève, Centre Universitaire D'informatique, Vision Group, Switzerland, are developing copyright protection mechanisms for images and videos, involving in particular digital watermarks hidden into the images employing KryPict software.

The **University of Minnesota**, USA, have developed a multi-scale signal processing group.

The **University of Vigo**, Spain, specialise in theoretical and statistical analysis of watermarking algorithms.