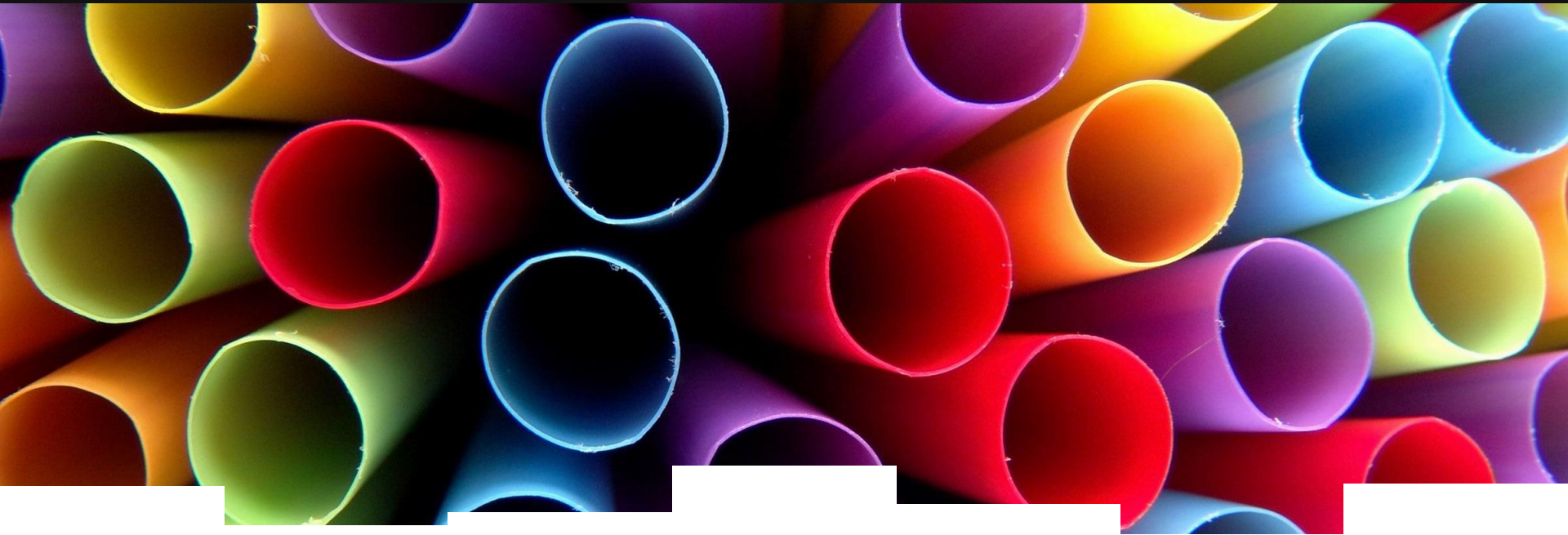


Master SCCI 10th Birthday

September 12, 2011



Mohamed Karroumi



My History

2002-2003: **Master's Degree in Pure Mathematics**
Université des sciences, Lille, France

2003-2004: **Master's Degree in Computer Sciences (SCCI)**
Joseph Fourier University, Grenoble, France
... selected by chance !

03/09-2004: **Internship on Digital Right Management (DRM)**
NAGRA (Canal+ Technology)

2004-2008: **Engineer (developer)**
Thomson R&D (Rennes)

2008-2011: **R&D Engineer**
Technicolor Security labs

My fields of expertise

DRM - Content Protection

- Studied Pay-TV conditional access system
- Design and development of a DRM system
- Expertise on physical media protection: CSS, AACIS and BD+
- Digital Cinema security architecture (Involved EDCINE and ISA)

Cryptography

- Background in Maths
- Symmetric & asymmetric cryptography, lightweight cryptography, authentication protocols
- White-box/obfuscated implementation
- Development and integration of a crypto library (set-top-box platforms)

Scholarship

Editorial

- Technicolor Security Newsletter
- Technical reports

Lectures in academies (since 2007)

- Introduction to cryptography, DRM, Broadcast Encryption
- SUPELEC, ENSTA, UVSQ

Publications in International Conferences (2006-2011)

- 6 papers, related to DRM stuff and crypto. implementation

Patents

- More than 10 invention disclosures



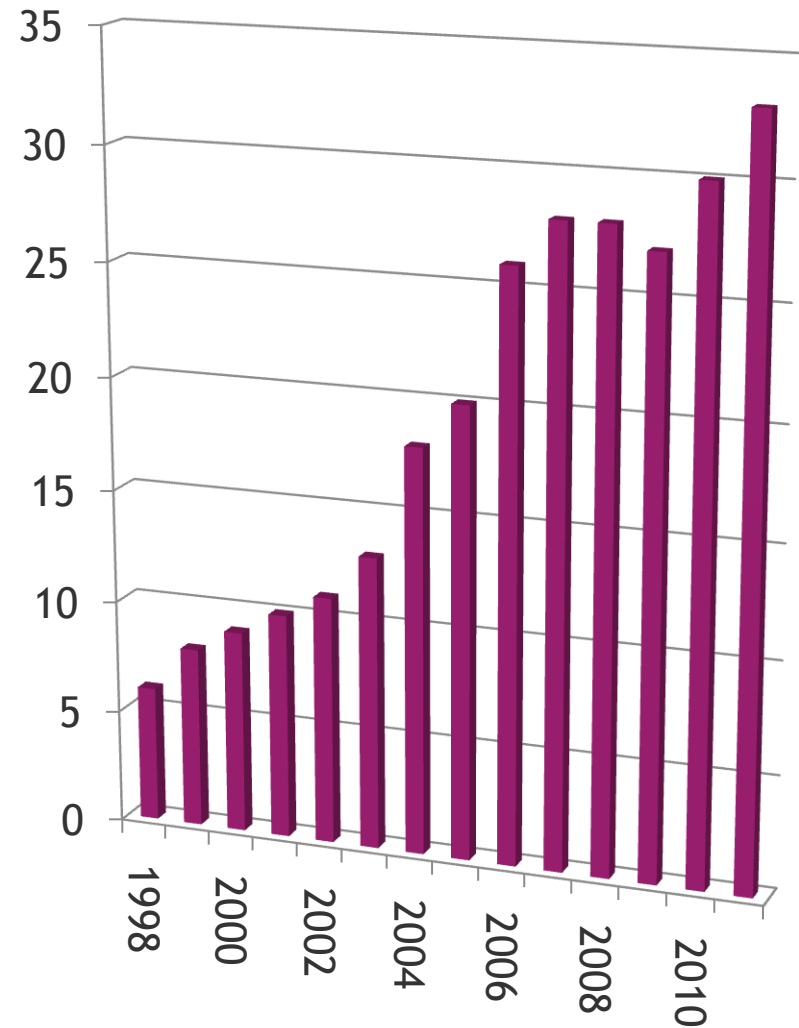
Today in Technicolor Security Labs

31 experts

- France, Germany
- Multidisciplinary skills
- 1 PhD student, 1 post-doc

Our missions

- Create new solutions for the Media & Entertainment Industry
 - Proof Of Concepts, Demonstrators
- Provide support to Business Units
 - Security assurance
 - Secure modules
 - Secure systems
- Maintain and share expertise



Some Research Topics

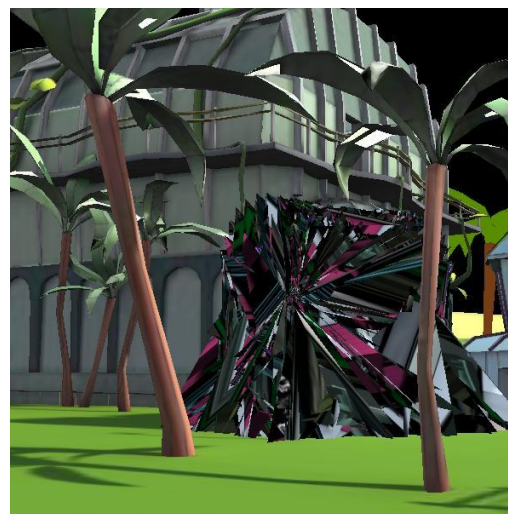
DRM for 3D

- 3D object scrambling

Digital Rights Locker

Selective encryption

Genuine DVD-BD Authentication



technicolor

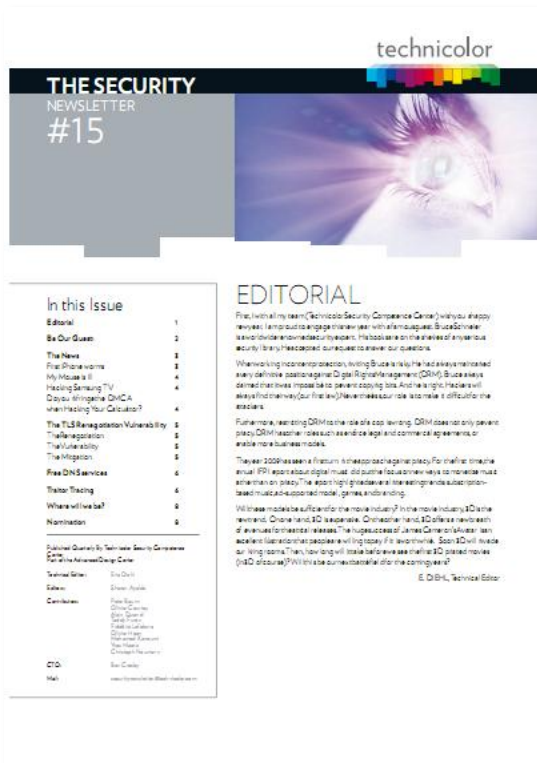


To learn more

Quarterly newsletters

- Subscribe at security.newsletter@technicolor.com
- Past issues at <http://eric-diehl.com/index.php?lang=En&page=news>

Leaflets



Thank you for your attention

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