Welcome and Introduction

2nd Int. Workshop on Standards and Technologies in Multimedia Archives and Records (STAR 2013), EPFL, Lausanne, 2013-01-18/19

Prof. Touradj Ebrahimi (EPFL)
Dr. István Sebestyén (Ecma International)
Here we are in Lausanne (actually Morges) again....
This time NO Eyjafjallajökull volcano on Iceland....
Welcome to the Workshop !!!
Some logistics…

- **Wireless access**
  - SSID: **Public epfl**
  - Login: **x-star2013**
  - Password: **anynod75**

- **Website of the workshop**
  - [http://star.epfl.ch](http://star.epfl.ch)
  - Includes the agenda, the proceedings, and the speakers biographies
  - Slides of presentations

- **Restaurants on the campus (see map in your conference kit):**
  - No reservation has been made
  - The closest restaurants are Copernic and Vinci
  - The closest cafeterias (self-service) are Esplanade, Ornithorynque (SV) and Hodler (Learning Center)
  - The Table de Vallotton (Learning Center) is generally fully booked
About the Workshop… Key topics

The workshop will address with invited talks and panel discussions the following key topics in Multimedia Archives and Records:

- Special Session on Montreux Jazz Festival Digital Archives
- Special Session on JPEG 20th Anniversary
- Special Session on JPEG Extensions for Preservations
- Advanced Preservation of Digitalized Frescos
- Archival and Preservation Standards
- High Dynamic Range Image and Video Formats and Applications
- Privacy Protection of Digital Archives
- Technologies and Systems for Multimedia Content Archival and Preservation
About the hosts…EPFL

• EPFL is one of the two Ecoles Polytechniques Fédérales (Federal Institute of Technology) in Switzerland. Its missions are:
  – Education
  – Research
  – Technology transfer at the highest international level
• Campus of more than 10’000 people, more than 100 nationalities
• 13 complete study programs at the Bachelor’s and Master’s levels in engineering, basic sciences, computer and communication sciences, civil engineering, architecture and the environment.
• Doctoral school
• More than 250 laboratories and research groups, among them the Multimedia Signal Processing Group (MMSPG), headed by Prof. Touradj Ebrahimi
About the hosts… EPFL (cont.)

- MMSPG’s research topics span over three highly interconnected disciplines:
  - Multimedia coding (still image, video and 3D model compression)
  - Multimodal processing, analysis and interpretation (change detection, feature point extraction and tracking, object segmentation and tracking, compressed domain processing, metrics for quality of experience, and signal processing issues in man-machine interface for interactive communication)
  - Media security (development of algorithms for copyright protection, conditional access and authentication of images, videos and 3D models)

- MMSPG is very active in international collaborations, such as:
  - Collaborations within the European Commission Research Frameworks
  - MPEG
  - JPEG
  - DMP

- Further information: http://mmspg.epfl.ch
Ecma International is a Standardization Developing Organization (SDO) in the area of information- and telecommunication technologies and consumer electronics.

It was founded by the Industry in 1961 as “European Computer Manufacturers Association” located in Geneva, Switzerland and became global in 1994, but the “trademark” “Ecma” was kept in “Ecma International” (see more information in attached slides).

In the past several Ecma standards (that also became ISO/IEC standards) covered various aspects of multimedia archival and storage, like:

- Data Interchange and Archiving by Physical Media standards
  - Optical storage standards (CD and DVD standards)
  - 1st generation Holographic storage standards
  - Magnetic Tapes and Cartridges
  - Flexible Disk Cartridges
- Generations of Document Architecture Standards (ODA, OOXML)
- Data Presentation (Character sets, Labeling, Volume- and File Structure)
- Javascript (ECMAScript)
• We would be eager to pick up new standardization topics in the area of multimedia archival and preservation.

• Our goal in the STAR Workshop:
  – To learn where the Industry is now,
  – To understand User and Industry Requirements
  – To identify Standardization gaps
  – To initiate Standardization efforts to fill those gaps.
Agenda – January 18 AM

NB: The agenda is also available on the website…

Session 1: Montreux Jazz Festival Digital Archives (Chair: Istvan Sebestyen)

- 09:30h - The Montreux Jazz Digital Archive
  Alain Dufaux, EPFL, CH

- 10:00h - Making the Archive Alive
  Alain Dufaux, EPFL, CH

- 10:30h - A Database for the Montreux Digital Archive
  Jean Rossier, EPFL, CH

- 11:00h - Coffee & Refreshments

- 11:30h - Defect Detection and Enhancement for the Montreux Jazz Video Archive
  Philippe Hanhart, EPFL, CH

- 12:00h - Acoustic User Experiences for the Montreux Jazz Lab
  Hervé Lissek and Patrick Marmaroli, EPFL, CH

- 12:30h - Lunch break
Session 2: JPEG/JBIG Anniversary
Chairperson: Richard Clark, Elysium, UK

- 14:00h - The Legend Begins – the JPEG Story from the 1980s
  István Sebestyén, Ecma International, CH
- 14:30h - Historical Foundations of the JPEG Algorithm
  Alain Leger, ex CCETT, CNET, FT R&D, FR
- 15:00h - JPEG/JBIG History and Future Issues
  Fumitaka Ono, Tokyo Polytechnic University, JP
- 15:30h - Concluding Notes on JPEG History
  Richard Clark, Elysium, UK
- 15:40h - Coffee & Refreshments
Session 3: JPEG Extensions for Preservation
(Chairperson: Bernard Hammer, ex-Siemens and Ecma International, DE)

- 16:00h - JPEG Standard for Coding High Dynamic Range (HDR) Still Images
  Thomas Richter, University of Stuttgart, DE
- 16:30h - Considerations on Dynamic Range Imaging
  Walt Husak, Dolby, US
- 17:00h - Report on JPEG AIC Activities
  Chaker Larabi, University Poitiers, FR
Session 4: Systems, Technologies and Standards
(Chairperson: Touradj Ebrahimi, EPFL, CH & all)

- 09:30h - Use of JPEG2000 for Archiving
  Siegfried Foessel and Heiko Sparenberg, Fraunhofer, DE
- 10:00h - MPEG Multimedia Preservation Activities
  Werner Bailer, Joanneum Research, AT
- 10:30h - EBU Preservation and Related Activities
  Jean Pierre Evain, EBU, CH
- 11:00h - Coffee & Refreshments
- 11:30h - Closer to Van Eyck: Rediscovering the Ghent Altarpiece
  Peter Schelkens, VUB, BE
- 12:00h - Role of Structural Migrations in Quality Preservation for Archives
  Chaker Larabi, University Poitiers, FR
- 12:30h - Construction and Standardization of PDF/A
  Dave McAllister, Adobe, US
- 13:00h - Lunch break
Session 4: Systems, Technologies and Standards
(Chairperson: Touradj Ebrahimi, EPFL, CH & all)

- 14:00h - Privacy Protection of Digital Archives
  Atta Badii, University of Reading, UK

- 14:30h - Rich Unified Content Description (RUCoD)
  Vincenzo Croce, Engineering I. I. Spa, IT

- 15:00h - Preservation Projects at Basel University
  Lukas Rosenthaler, University of Basel, CH

- 15:30h - Coffee & Refreshments
Session 5: Panel Discussion
(Moderator: Touradj Ebrahimi, EPFL, CH)

• 16:00h - Panel Discussion with stakeholders from the user's group, industry and public organizations.
  topics are:
  – How to cope with the evolution of technologies in preservation?
  – How to manage the multidisciplinary nature of preservation (from cultural to engineering issues)?
  – Which standards are needed? Give you wish list!
  – What are IPR and security issues in digital preservation?

• 17:30h - End of the Workshop
Social Program on January 18

- **19:30h - Social Dinner at Chalet Suisse**
  - **Address:**
    - Route du Signal 40
    - 1018 Lausanne
  - *Only a few minutes from the center of Lausanne.*
  - **Access:**
    - ø Motorway to Lausanne-Nord, exit Vennes No 10
    - ø Bus No 16, direction Grand-Vennes, "Signal" stop

- **22:30h - End of Day One**
Enjoy the STAR Workshop!!!