

SeLCont

Synchronized e-Learning Content

eTwinning Thematic Conference “ Learning to think in a digital World”

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Complementing Asynchronous e-Learning

<http://webvm.netmode.ntua.gr/courses/?lectures=introduction-to-selcont>

- **On-line Storage of** multimedia synchronized content (lectures, courses)
- **On-line Lectures include:**
 - Video
 - Slides (PowerPoint/PDF)
 - Internet screenshots (Browsing)
 - Annotations on slides
- **Key features:**
 - Use of standard equipment in most lecture halls (web camera, sound system, projector)
 - Minimal video post-processing (optional)
 - On-line storage: Simple web-page using pre-formatted form, with links to slides and video service e.g. YouTube

Potential *SeLCont* Users

SeLCont as a **product** to be used by:

- Professors
- Teachers
- Presenters
- Web site owners requiring add-ons for on-line synchronized multimedia content

SeLCont as a **service** to lecture-providing organizations:

- Schools
- Universities
- Research Institutes
- Companies organizing lectures, seminars, presentations

Synchronization Process in three Steps

1st Step:

Lecture delivery & recording: Recording of lecture, video assisted by material of synchronized screenshots; timestamps stored in a **SeLCont** generated file

2nd Step:

Post-processing: Fine-tuning of video – timestamped content; simple video editing (optional and on instructor request, using common tools)

3rd Step:

Publishing of final result: Filling pre-formatted web form; uploading in a web server & a video service provider (e.g. YouTube)

1st Step: Lecture Delivery & Recording

- **Video-audio recording**
 - Using common lecture hall equipment
 - May also capture hand-written notes on an adjacent blackboard/whiteboard)

- **Recording of support material from presenter's laptop/tablet**
 - Slides (PowerPoint/PDF)
 - Internet screens and other browser screenshots
 - Annotations produced on presenter laptop/tablet

- **Timestamps recorded in a *SeLCont* file**
 - Synchronization of screenshots within video – audio stream
 - Timestamps generated on *PrtScn* or *Spacebar* or *PgUp* – *PgDn* or *arrow keys* via a light *SeLCont* application (to be installed in the presenter laptop – not applicable for a tablet)

2nd Step: Post-Processing

- **Optional** simple video editing of recorded video file (e.g. in MP4 or FLV) using off-the shelf editors (e.g. Camtasia, Adobe Premiere, OpenShot ...)
- **Uploading** of (edited) video in a video provider cloud (e.g. YouTube) or in a web server.

3rd Step: Publishing of Final Result

- **Development of lecture web page**, preferably via a Content Management System - CMS (e.g. Wordpress)
- **Data entry** in pre-formatted web form of lecture-specific info:
 - Lecture title
 - Keywords
 - Presenter
 - Video URL (in video cloud, e.g. YouTube)
 - Presentation file (PowerPoint/PDF)
 - Screenshots (timestamps) to be synchronized with the video stream (oblivious to the presenter)
- **Final check & uploading** of *SeLCont* lecture via its URL

SeLCont on Up2University

- SeLCont is currently integrated via LTI with the Up2University Learning Platform (<https://learn.up2university.eu/>).
- In order to Log-in you must have an account on an identity provider (e.g. eduGAIN, ...)



Thank you!