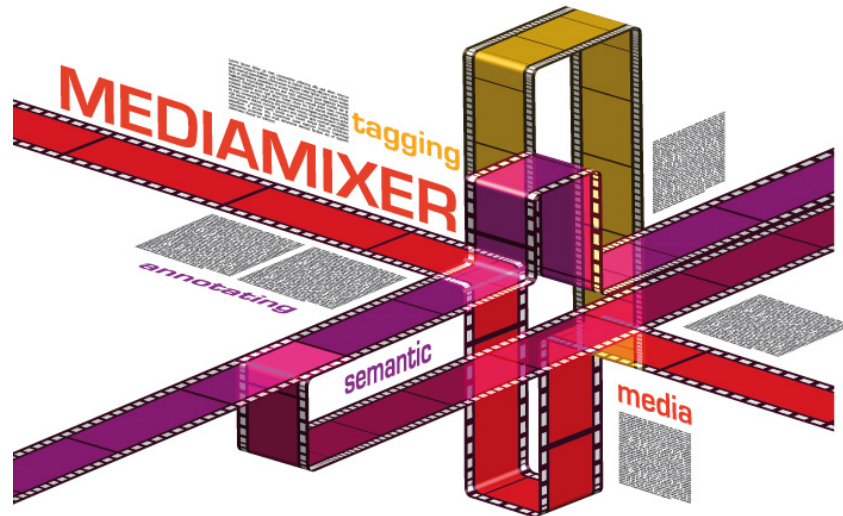
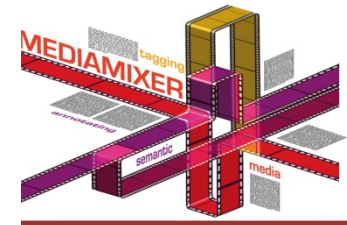


Media Mixing for e-learning

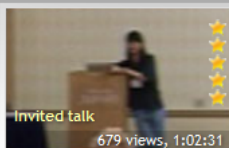


Tanja Zdolšek
tanja.zdolsek@ijs.si

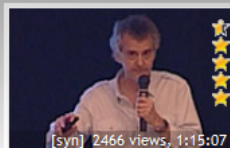
March 2014



1648 views, 1:37:18
Radical Thinking about the Future of Europe
Slavoj Žižek



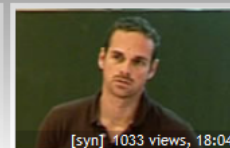
Invited talk
679 views, 1:02:31
A tempest: Or, On the flood of interest in sentiment ...
Lillian Lee



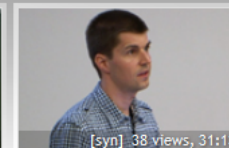
[syn] 2466 views, 1:15:07
Bayesian dynamic modelling
Mike West, Michael I. Jordan



18 views, 46:37
Lecture 18: Factor Markets
Jonathan Gruber



[syn] 1033 views, 18:04
Visualising the Cluster Structure of Data Streams
Dimitris K. Tasoulis



[syn] 38 views, 31:13
Modeling Destructive Group Dynamics in On-line Gaming Communities
Oliver Brdiczka

WATCHING NOW

- This page - videolectures.net - 3
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- MIT OpenCourseWare - VideoLectures - 1
- Category: Computer Science - 1
- MIT 6.046J / 18.410J Introduction to 2

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- Arts (200)
- Astronomy (72)
- Biology (417)
- Business (1085)
- Chemistry (166)
- Computers (468)
- Computer Science (8562)
- Earth sciences (25)
- Environment (174)
- Events (429)
- Health Sciences (29)

NEWS

Machine learning eduresearch @ Internet of Education 2013 conference Aug. 26, 2013

The goal of the Internet of Education which has been given UNESCO patronage, is to bring together researchers and policy makers from both university and academia to research into methods for improving the effectiveness of video based MOOC education but also promote discussion of the implications of new edutech trends for classical university education focusing on the SEE region.

The Slovenian Research Agency project results videos Aug. 19, 2013

The Slovenian Research Agency in 2011 launched for the promotion of scientific research activities the campaign PRO(MO)GRAM, which main goal is to promote research program groups that carry out six-year research programs. Check the vids!

COLT 2013 is here! Aug. 19, 2013

If you couldn't make it to the 26th Annual Conference on Learning Theory (COLT 2013) in Princeton 2013, now is your chance to see the talks online!

1st Winter School on Multimedia Processing and Applications July 11, 2013

We are pleased to announce the 1st edition of the WinterSchool on Multimedia Processing and Applications.

ESWC 2013 is published now! July 10, 2013

Check the videos of the 10th Extended Semantic Web Conference (ESWC), Montpellier

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Kolokviji na Institutu "Jožef Stefan"

Inštitutski sredini kolokviji so v preteklih letih postali sinonim za eminentne znanstvene dogodke, ki so pritegnili pozornost ne samo naših ...



MIT World Host: MIT School of Humanities, Arts, and Social Sciences

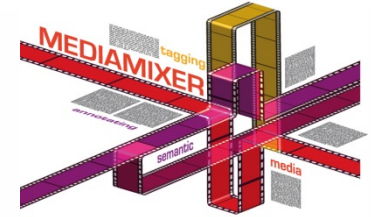


MIT World Series: Sustainability@MIT

- Start: support service
- Now: largest web portal with video edu&open access
- 18.000 videos (1-1,5h)
- 11.900 authors
- 10.000 unique visitors/day

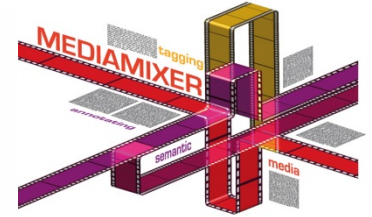


Facts



- Informal learning channel
- Promoting science, fostering knowledge
- OER
- Mobility
- Award-winning
 - UN WSA for „e-science & technology“
 - 2009 – WSA, 2013 – WSA of the decade
- Aims
- OpeningUpEducation Initiative

OpeningUpSlovenia



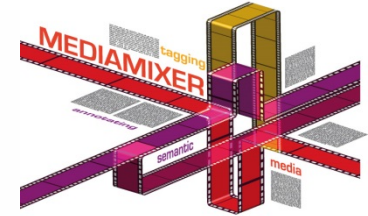
Slovenia is proposing to take a lead in OpeningUpEducation initiative set by EU by:

- Providing EU state level commitment for the programme by all stakeholders and
- offering Slovenia as a national test bed to develop, test and deploy best practices

„The OpeningUpSlovenia case study - Slovenia has strategically committed to open education on all levels and over complete scale“



Initiators



- Jožef Stefan Institute
 - Knowledge 4 All Foundation Ltd.
 - University of Maribor
 - University of Primorska
 - University of Ljubljana
 - University of Nova Gorica / **private universities**
 - Ministry of Education, Science and Sport / **government**
 - OS Savsko Naselje primary school, representative of the **national primary schools cluster**
 - Vrtec Trnovo kindergarten, representative of the **national kindergarten cluster**
 - Chamber of Commerce and Industry of Slovenia
 - The Managers' Association of Slovenia
 - Chamber of craft and small business of Slovenia
 - **ALL ACTORS in SLOVENIA BROUGHT TOGETHER**
- research, research connections and infrastructure**
- Slovenian public universities**
- industry, business**

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OPENING UP SLOVENIA

ANDROULLA VASSILIOU

COMMISSIONER FOR EDUCATION,
CULTURE, MULTILINGUALISM AND
YOUTH, DG EAC, EUROPEAN COMMISSION

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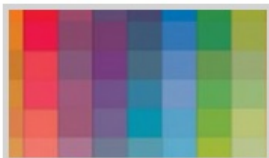


YOUTUBE



LinkedIn

First look at the schedule



We've published preliminary Conference Schedule, with over 90 presentations and workshops.

[Read more](#)

#ocwcglobal



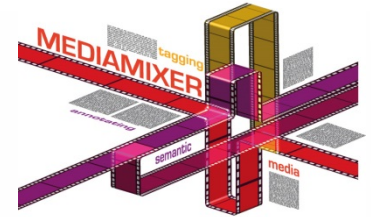
OCW Consortium @ocwnews

18h

Awards ceremony for OCW Consortium Awards for OpenCourseWare Excellence held on Apr. 24 at #OCWGlobal [ow.ly/v7ISY](#)

Expand

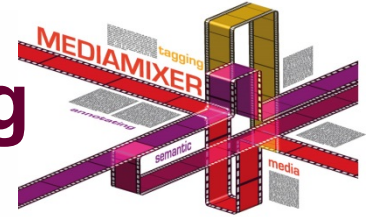




MediaMixer Project and VideoLectures MashUp

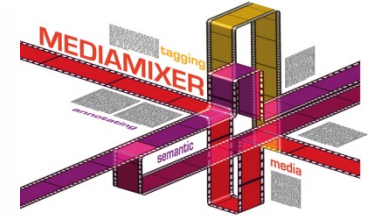
How media fragments and their re-mixing
can enable new experiences for e-learners

Media creation & re-use in e-learning



- E-learning materials are increasingly multimedia: more video recordings, more accompanying materials such as slides
 - E-learners need to be able **to search and retrieve** the material they are looking for (based on its subject)
 - Consumption trends towards mobile and on-the-go means interest **focuses on the parts of the material** of particular interest

The MediaMixer hub



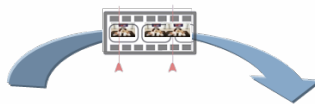
AV Content Provider



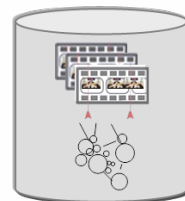
- 1) AV material analysis and annotation
- 2) Fragment Definition
- 3) Rights and Cost Assignment



- 4) Fragment Upload
- 5) Clearing (Sell)



Media Mixer Repository



annotated & linked Media Fragments

AV Content Demander



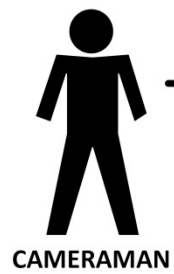
- 6) Search. Browsing
- 7) Rights and Cost Assessment
- 8) Download



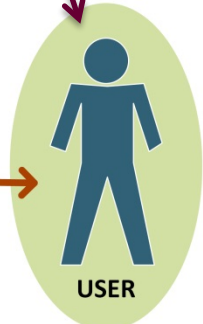
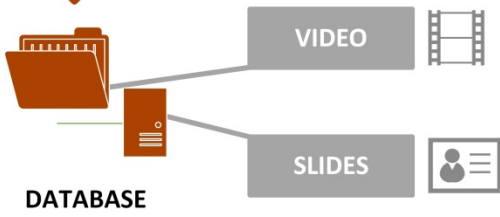
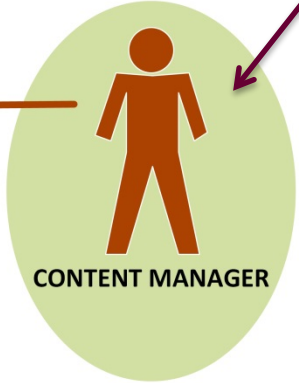
- 9) Composition of new AV materials
- 10) Clearing (Buy)



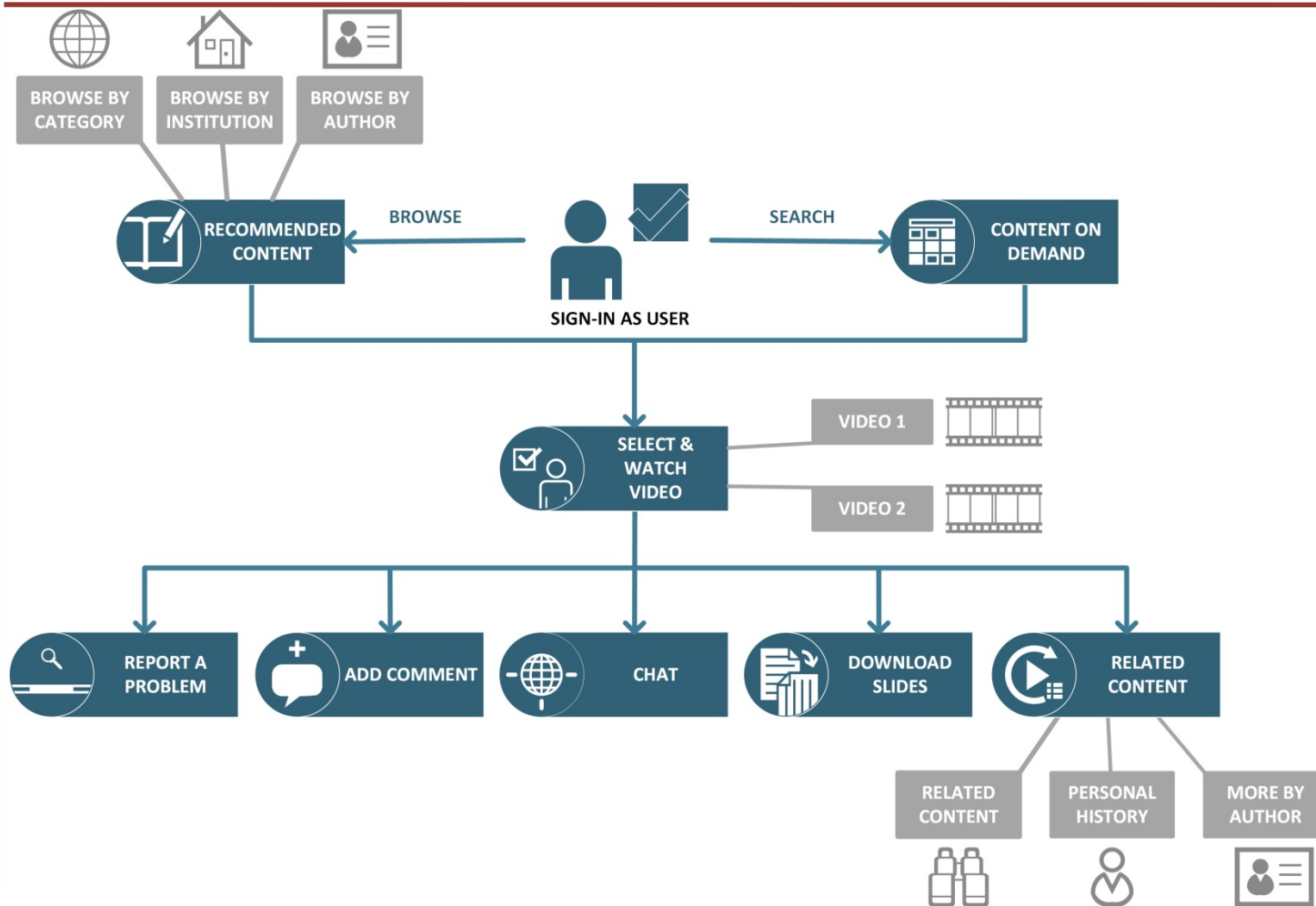
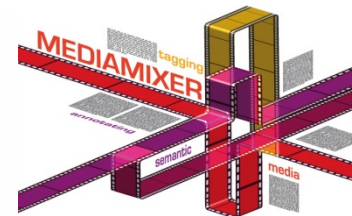
- Video analysis tools
- Video annotation tools
- Video metadata creation and publication
- Digital rights management
- Media search and retrieval
- Media negotiation, purchase and re-use



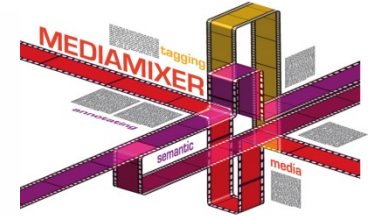
VideoLectures MashUp



Current USER workflow

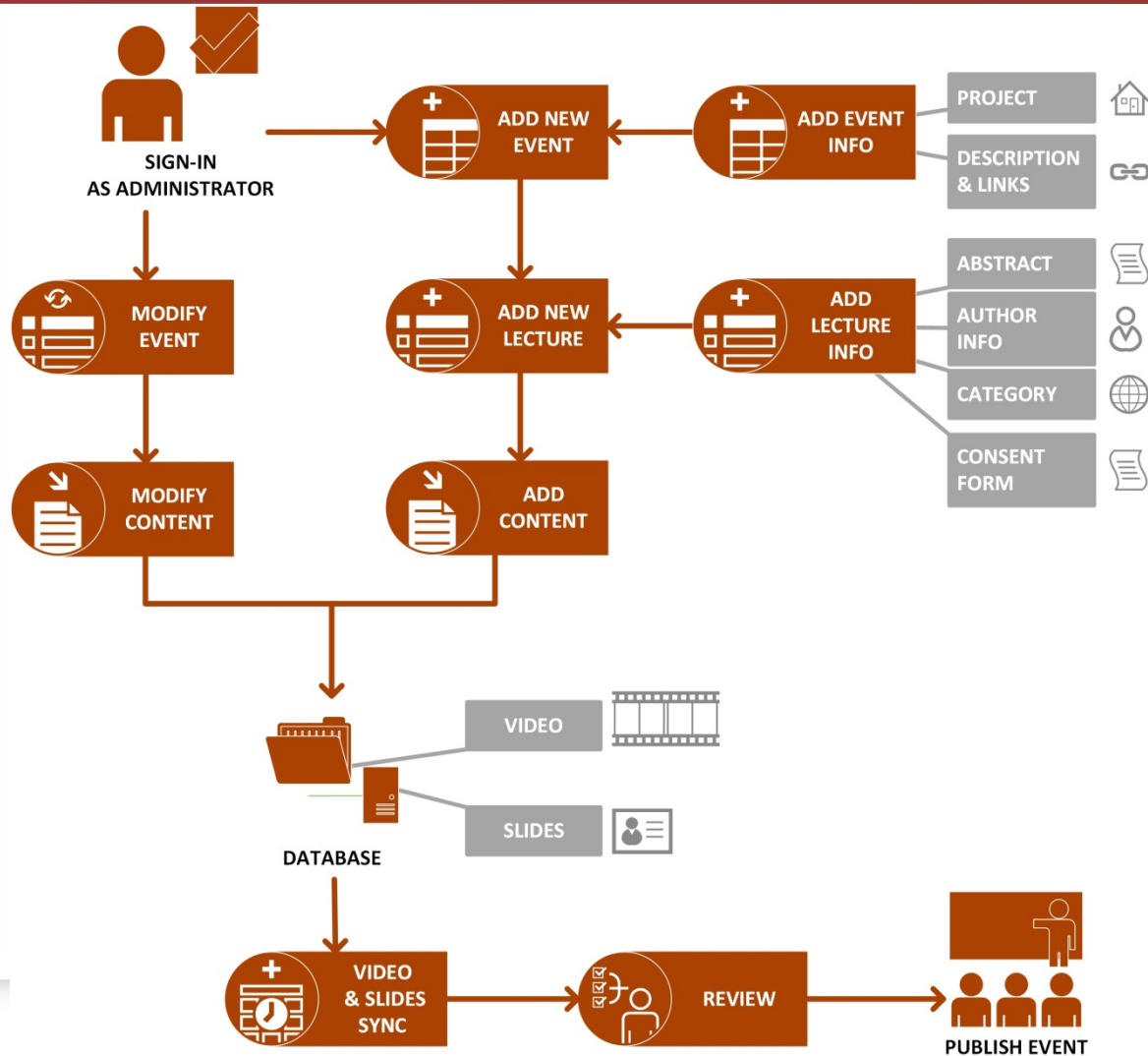
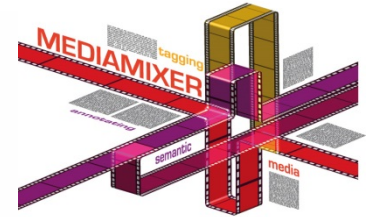


Problems

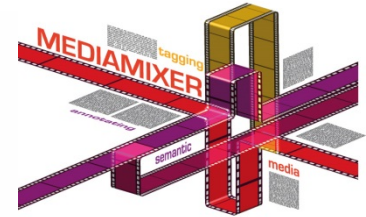


- Search (text matching only over titles, descriptions)
- Users looking for learning materials on specific topics - unique requirements
- Users looking for very specific information - fragments, not entire lectures
- Lack of time for watching, the need for mobile version
- The need for meaningful structures, curriculums
- Videlectures.NET strategy includes continuous introduction of new technologies - important initiative to provide users with access to the semantically enriched content fragments...

Current CM workflow



Problems

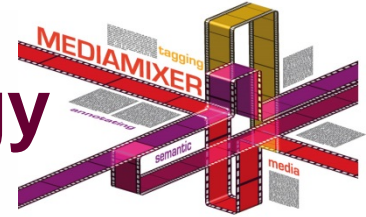


- From manual to automatic
- Save CM's time, employer money
- The need for new functionalities

(automatic textual transcriptions from speaker audio, translations (FP7 transLectures), concept extraction from slides (not just titles but textual content), video analysis, semantic annotation - video annotation process, segmentation...)

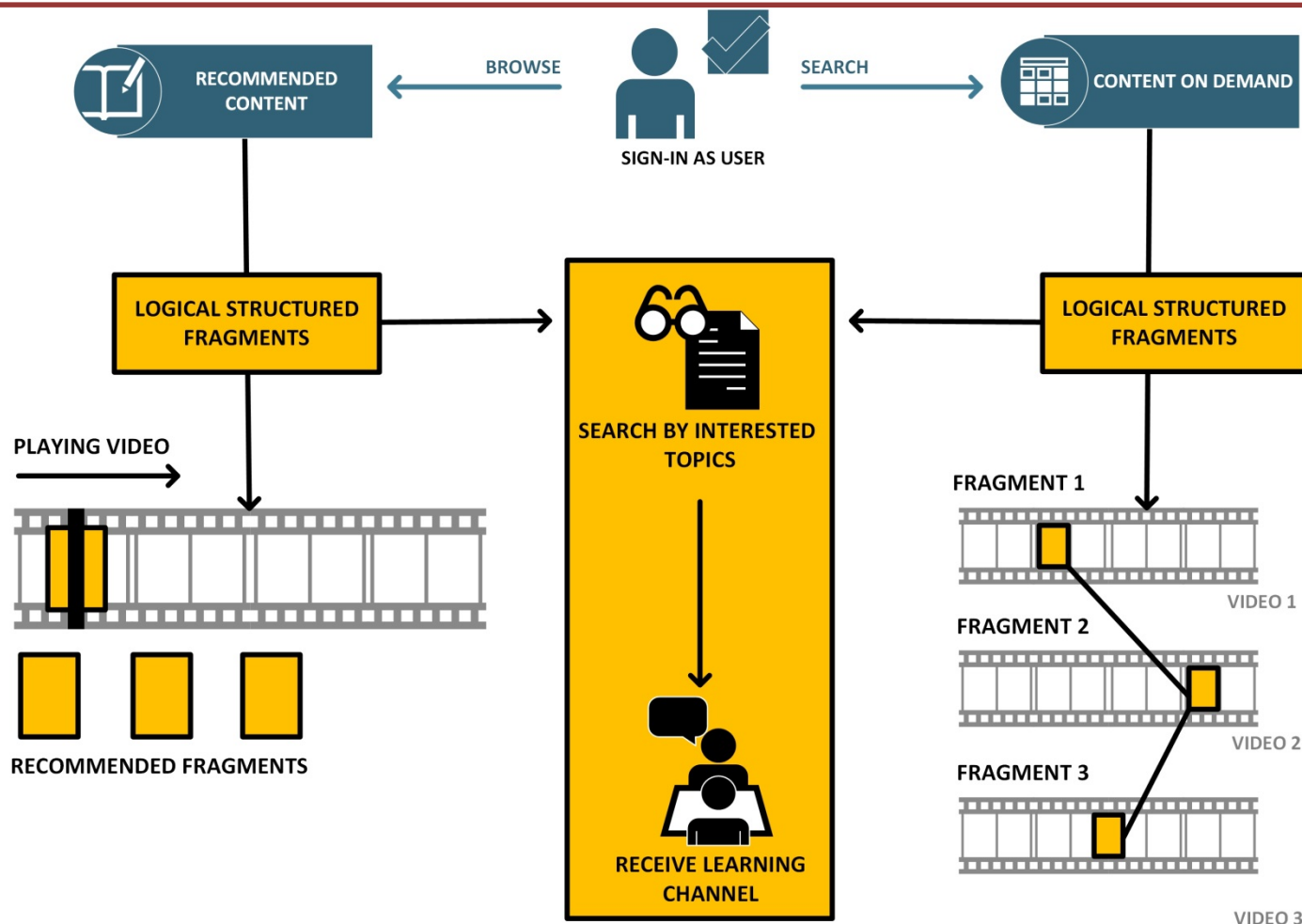
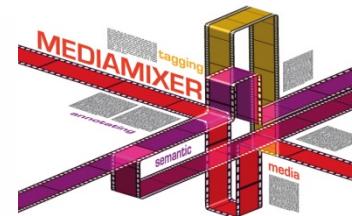
- Manually make meaningful structures, curriculums (takes too much time!)

Benefits from MediaMixer technology

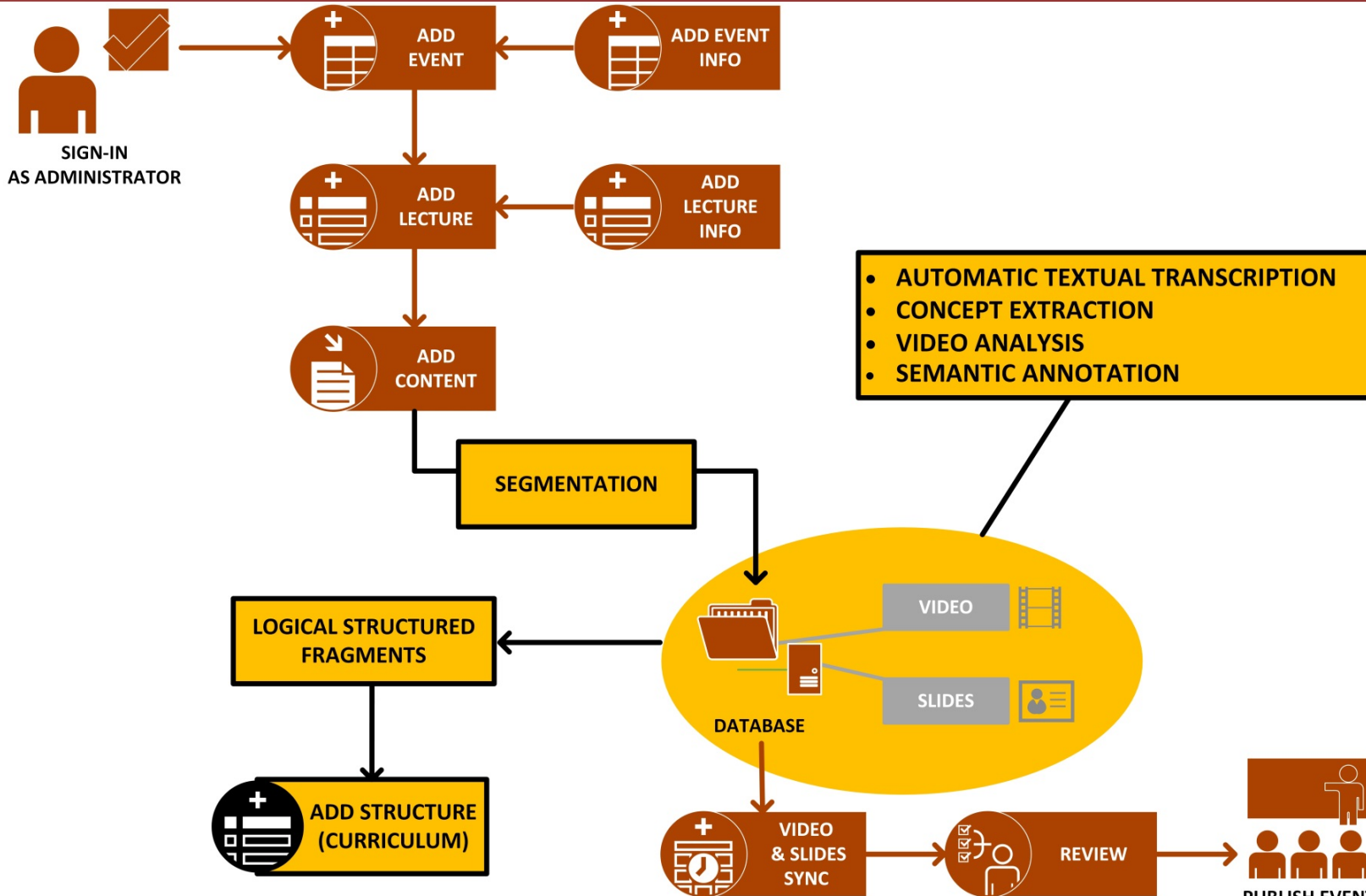
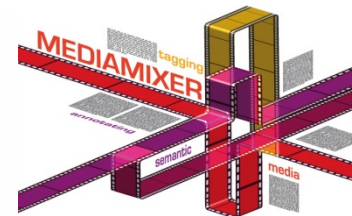


- **Simplify** existing workflows
- **Improved** search and browsing in general and **retrieval of fragments**
- Fragments of learning materials from the site, ordered in a meaningful way
- **Content on demand**; easier and quicker access to specific topics of interest
- Direct intuitive access to a **single learning channel** built around the topic searched for
- Producing **new learning materials - curriculums**
- Content specifically **addressable** and hence **bookmarkable/saveable** for subsequent reference and viewing
- **New contexts** -> dynamic provision of such learning resource would be particularly useful in mobile consumption contexts
- These could subsequently form **new distribution channels** for VideoLectures (e.g. video streams / TV channels on selected topics)
- This could drive to **more repeated access and win new users!**

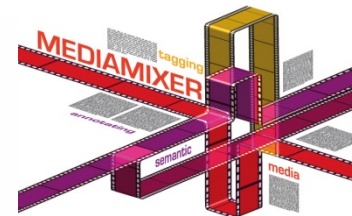
New User Workflow



New CM Workflow



VideoLecturesMashup - demo



- MM technologies (semantic annotation, media fragment URIs)

videolectures.net
exchange ideas & share knowledge

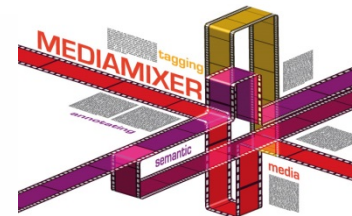
 Longer shots

Search for a correct DBpedia title, like `Statistics`, `Machine learning`, `Kernel methods`, `Structure`, ...

MediaMixer | Community set-up and networking for the reMIXing of online MEDIA fragments

Co-funded by the European Union, Nov 2012 - April 2014

© Jožef Stefan Institute, VideoLectures.NET, Viidea



Search results: Learning

- 

Sparse Methods for Under-determined Inverse Problems [1/3]
Rémi Gribonval, 2011 (904 views)
t=36.62,43.66 t=55.17,62.12 t=1665.45,1672.1 t=3884.84,3890.18
- 

Kernel Methods [1/3]
Bernhard Schölkopf, 2011 (2432 views)
t=127.8,131.74 t=601.12,604.27 t=802.72,808.51 t=913.37,920.9 t=1513.2,1517.61 t=1710.45,1716.15
- 

Bayesian Inference [1/3]
Peter Green, 2011 (3979 views)
t=146.62,151.25 t=276.1,279.8 t=384.13,389.21 t=420.25,427.48 t=565.67,568.86
- 

The Biology of the Language Faculty: Its Perfection, Past and Future
Noam Chomsky, 2007 (745 views)
t=389.5,397.48
- 

Sparse Methods for Under-determined Inverse Problems [2/3]
Rémi Gribonval, 2011 (904 views)
t=417.57,426.08
- 

The Idea of Universality in Linguistics and Human Rights
Noam Chomsky, Elizabeth S. Spelke, 2005 (964 views)
t=665.1,672.89 t=4156.35,4162.07
- 

Fast global convergence rates of gradient methods for high-dimensional statistical recovery
Alekh Agarwal, 2010 (398 views)
t=1116.12,1121.85
- 

Bayesian Nonparametrics [2/3]
Yee Whye Teh, 2011 (3083 views)
t=1429.07,1433.08 t=2590.0,2596.08 t=3152.13,3160.84 t=4464.04,4472.06 t=5072.35,5078.12 t=6263.26,6267.6
- 

Kernel Methods and Support Vector Machines [3/3]
John Shawe-Taylor, 2009 (2358 views)
t=1848.48,1855.82
- 

Mining Large Graphs: Laws and Tools [2/4]
Jure Leskovec, 2007 (6608 views)
t=1977.02,1982.26
- 

Bayesian Nonparametrics [3/3]
Yee Whye Teh, 2011 (3083 views)
t=2441.8,2449.84 t=2549.15,2554.38 t=3386.8,3393.0 t=3393.56,3398.2 t=3475.31,3480.82 t=3522.42,3527.86



Location: EU Supported » PASCAL - Pattern Analysis, Statistical Modelling and Computational Learning » Machine Learning Summer School (MLSS), Bordeaux 2011

Sparse Methods for Under-determined Inverse Problems

MLSS 2011 - Bordeaux

Categories

- Top » Computer Science » Machine Learning
- Top » Computer Science » Digital Signal Processing

Rémi Gribonval, INRIA Rennes - Bretagne Atlantique September 2011

The video player displays a speaker, Rémi Gribonval, on the left and a slide on the right. The slide is titled "Structure of the course" and lists three sessions with their topics and sub-topics. A play button is overlaid on the speaker's video.

Structure of the course

- **Session 1: Panorama**
 - ✓ sparsity: compression, inverse problems, learning
 - ✓ introduction to compressed (random) sensing
- **Session 2: Algorithms**
 - ✓ review of main algorithms & complexities
- **Session 3: Guarantees for Deterministic vs Random dictionaries**
 - ✓ compared success guarantees for different algorithms
 - ✓ robust guarantees & Restricted Isometry Property
 - ✓ explicit guarantees for various inverse problems

http://videolectures.net

INRIA R. GRIBONVAL - SPARSE METHODS - MLSS 2011 3 SEPTEMBER 2011

Overview

Slide timeline

Video parts

Fragments

Downloads

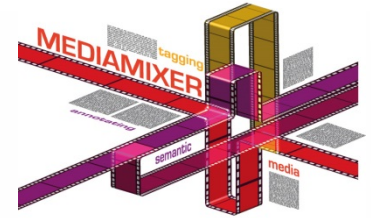
00:37-00:44 Learning

00:55-01:02 Learning

27:45-27:52 Learning

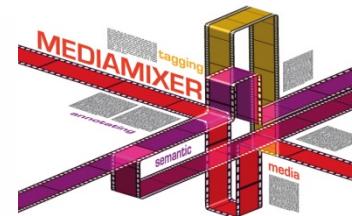
01:04:45-01:04:50 Learning





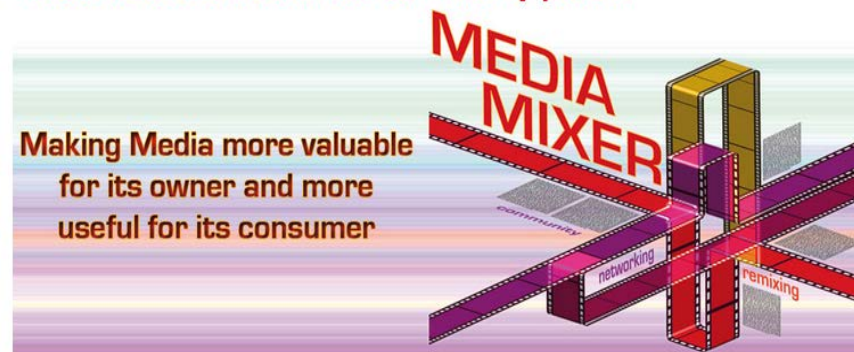
<http://mediamixer.videolectures.net/>

MediaMixer community portal



You are here: Home

Welcome to the MediaMixer community portal !



<http://community.mediamixer.eu>

Free sign-up

Intro to all technology at
community.mediamixer.eu/about

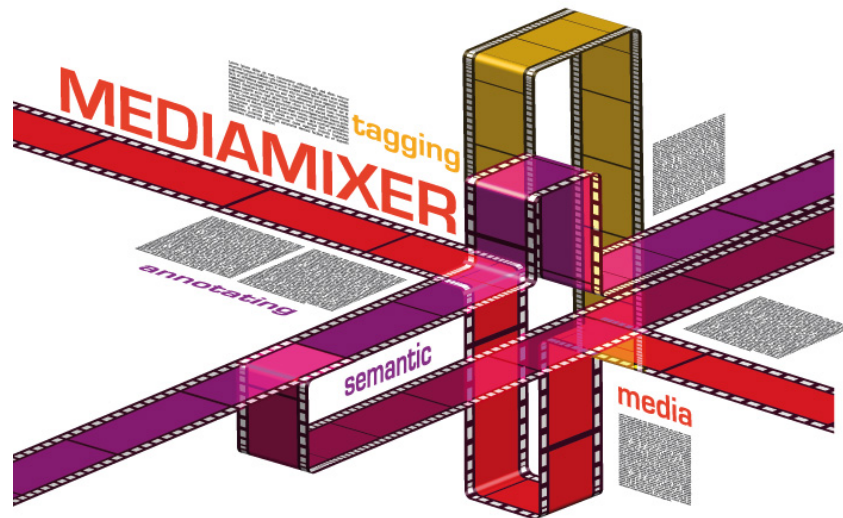
Updated with latest materials on all Media Mixer topics:

- Technology use cases
- Demonstrators
- Tutorials
- Presentations
- Software
- Specifications

Discussion fora for conversations on Media Mixer topics

- Events calendar

Thank you for your attention!



Say hello @project_mmixer



Institut "Jožef Stefan", Ljubljana, Slovenija

