



# Open Archives and Institutional Repositories for Open Educational Resources: Challenges Ahead for Turkish Universities

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[yunus.hacettepe.edu.tr/~tonta/tonta.html](http://yunus.hacettepe.edu.tr/~tonta/tonta.html)



- Definitions (OA, IR, OER, LOR)
- Turkish OA, IRs and OERs
- OER Issues
  - Metadata
  - Interoperability
  - Resource Discovery and Retrieval
- Challenges for Turkish Universities
- Conclusion



# Open Access



1. “. . . free, irrevocable, worldwide, right of access to, and a license to copy, use, distribute, transmit and display the work publicly . . .
2. A complete version of the work . . . is deposited (and thus published) in at least one online repository . . . maintained by an academic institution, scholarly society, government agency, or other well-established organization that seeks to enable open access, unrestricted distribution, interoperability, and long-term archiving.”

Source: **Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities**  
<http://www.zim.mpg.de/openaccess-berlin/berlindeclaration.html>



- “digital collection capturing the intellectual output of a single or multi-university community”
- Accessible to end users both within and outside of the institution
- IRs:
  - Institutionally defined;
  - Scholarly;
  - Cumulative and perpetual; and
  - Open and interoperable.

# c. 1,100 archives & 23M records . . .



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Digital Collection Services

**OA1ster**

- At a glance
- OA1ster metadata contributors
- How to contribute
- OA1ster history
- Accessing OA1ster
- Support, training and documentation

Subscribe to OCLC updates and offers

## The OA1ster® database

Millions of digital resources from thousands of contributors

**AT A GLANCE**

- Available through WorldCat.org at no charge.
- Contains records of digital resources from open-archive collections worldwide.
- More than 23 million records representing digital resources from more than 1,100 contributors.

[View complete at a glance >>](#)

**NEWS**

- [WorldCat.org enhancements in February 2010](#)
- [OA1ster contributors: a call for pilot participants](#)
- [A new way to access the OA1ster database](#)

[More news >>](#)

OA1ster is a union catalog of millions of records representing open archive resources that was built by harvesting from open archive collections worldwide using the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH). Today, OA1ster boasts more than 23 million records representing digital resources from more than 1,100 contributors.

### Access to OA1ster

A freely-accessible site for searching only OA1ster records is now available. With this [OA1ster site](#), you are able to search only OA1ster and its millions of metadata records.

Additionally, OA1ster records are fully accessible through WorldCat.org, and will be included in WorldCat.org search results along with records from thousands of libraries worldwide. They will also continue to be available on the OCLC FirstSearch service to Base Package subscribers, providing another valuable access point for this rich database and a complement to other FirstSearch databases.

### Multidisciplinary resources

The records of the open archive digital resources available via OA1ster lead to a wide range of

%99 kullanılabilir (prize takılı, dolmuyor)

Geçerli güç planı: Dengeli



# OA Archives (as of November 10, 2009)



- USA (300)
- UK (151)
- Germany (112)
- Japan (71)
- Brasil (70)
- Spain (58)
- Canada (51)
- India (50)
- France (50)
- Italy (48)
- Australia (48)
- Sweden (35)
- Netherlands (27)
- Belgium (19)
- South Africa (15)
- Denmark (14)
- China (11)
- Hungary (9)
- Turkey (8)
- . . .

• <http://archives.eprints.org/eprints.php?action=browse#country>



- METU Library E-Theses (2247 records, OAI-compliant)
- Ankara University Open Archive System (3441 records, OAI-compliant)
- Sabancı University Research Database (9069 records, OAI-compliant, Eprints software, Not 100% OA)
- Gazi University Open Archive (2057 records, OAI not registered)
- Atatürk University Open Archive (578 records, OAI-compliant)
- Atılım University Open Archive (218 records, OAI not working)
- And other non-registered web-accessible ETD archives

# Turkish OA Archives & IRs: Timeline



- 2003: METU Library ETD Archive becomes the first ND LTD member
- 2005: OA in Academic Informatics and Library Week meetings
- 2005: First experimental OA archive (Hacettepe Univ.)
- 2005: First operational OA archive (Ankara Univ.)
- 2006: OA Declaration
- 2006: Working Group on OA and IRs (ANKOS)
- 2006: OA & IRs Advisory Board (TLA, ÜNAK, ULAKBİM)





# Open Educational Resources



- “digitized materials offered freely and openly for educators, students and self-learners to use and re-use for teaching, learning and research.”
- “The open provision of educational resources, enabled by information and communication technologies, for consultation, use and adaptation by a community of users for non-commercial purposes.”

Source: Forum on the Impact of Open Courseware for Higher Education in Developing Countries (Final report) Unesco, 2002.



# Learning Object Repositories



- Repositories that contain OERs of educational institutions
- They provide resource discovery, metadata enhancement, and social network tools as well as interoperability



- Free access to open content (including metadata)
- Content is liberally licensed for reuse;
- Open content standards and formats are employed to facilitate easy reuse of content;
- Open source software is used, along with open Application Programming Interfaces (APIs), and authorizations to reuse Web-based services (e.g. RSS feeds).

Source: Fleming, C & Massey, M. (2007). Jorum Open Educational Resources (OER) Report, p. i-ii.



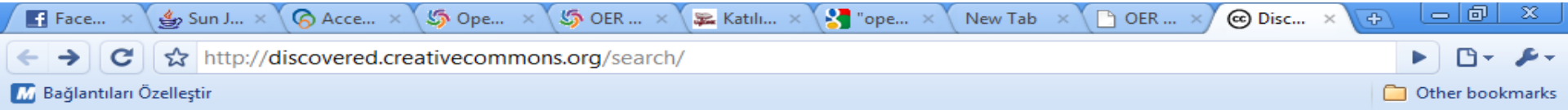
- Policies emphasizing educational innovation and organisational change;
- Promotion of ICT-based lifelong learning needs
- The Bologna Process
- Global competition in Higher Education and decline in student numbers in Europe due to demographic trends;
- Creative Commons licensing is firmly established and is being used increasingly;
- Open content repositories will increasingly surface from the Deep Web;
- New systems for creating and handling group-based learning designs may become more widely used;
- Semantic applications will provide new ways to access knowledge resources.

Source: Fleming, C & Massey, M. (2007). Jorum Open Educational Resources (OER) Report, p. 19-20.

The screenshot shows a web browser window with the address bar displaying <http://www.jorum.ac.uk/>. The page header features the Jorum logo (a stylized orange trophy) and the word "Jorum" in a large white font. To the right of the logo are two orange buttons: "Search" with a magnifying glass icon and "Deposit" with a trophy icon. Below the header is a navigation menu with links for Home, Get Started, Community, Support, News, and About Us. The main content area is divided into several sections:

- Welcome to Jorum:** A central text block stating that Jorum provides access to free learning and teaching resources created and contributed by UK Further and Higher Education Institutions. It mentions two collections: JorumOpen and JorumUK. A link "Find out how to get started with Jorum >>" is provided.
- Featured Resource - Making group-work work:** A section on the left with a thumbnail image of a meeting room and a list of bullet points: "Observing group behaviour", "First impressions", "Barriers to communication", "Reading body language", "Group composition", and "Assignments and activities".
- JorumUK Subscribers Map:** A map of the United Kingdom with numerous red location pins indicating subscriber institutions.
- Latest News:** A horizontal bar containing the text "Jorum Update March Newsletter - out now!".
- Jorum search and deposit options:** Two large colored boxes at the bottom. The left box is blue and labeled "JorumOpen" with a trophy icon. It lists: "Free to anyone, worldwide" and "Resources licensed under Creative Commons". The right box is orange and labeled "JorumUK" with a trophy icon. It lists: "Free to members of UK FE/HE Institutions" and "Subscription Required".
- JorumOpen Survey:** A section on the right with a speech bubble and pencil icon, titled "JorumOpen Survey - Please give us your feedback".
- Jorum's new horizons:** A section on the right with a sunset over the ocean image, titled "Jorum's new horizons - find out how Jorum is changing".

# DiscoverEd



## DiscoverEd

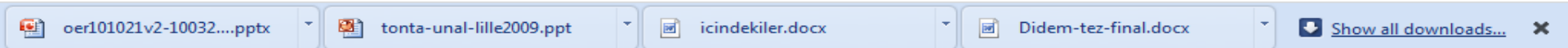
Discover the Universe of Open Educational Resources

BETA

Search

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# OER Commons



Face... x Sun J... x Acce... x Ope... x OER ... x Katılı... x "ope... x New Tab x OER ... x OER ... x

http://www.oercommons.org/

Bağlantıları Özelleştir Other bookmarks

**OER COMMONS**  
OPEN EDUCATIONAL RESOURCES

Register Now! Log in Feedback Help **Contribute Content**

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**Learning is Sharing**

Find **Free-to-Use** Teaching and Learning Content from around the World. Organize K-12 Lessons, College Courses, and more.

OER Materials

Subject Areas

- Arts (1740)
- Business (780)
- Humanities (6729)
- Mathematics & Statistics (3044)
- Science & Technology (17322)
- Social Sciences (5346)

Grade Levels

- Primary (7786)
- Secondary (12931)
- Post-secondary (19596)

**Open Educational Resources are all about sharing.**

In a brave new world of learning, OER content is made free to use or share, and in some cases, to change and share again, made possible through licensing, so that both teachers and learners can share what they know.

Browse and search OER Commons to find curriculum, and tag, rate, and review it for others.

Use the [Tutorials](#) as a guide. [Join](#) and contribute to the global Open Education community.

**Search Resources**

**Contribute**

Register for free in the OER Commons network, and submit links to your own learning content.

[Register Now »](#)

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- LOM
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- MPEG-7



# LRE Metadata Application Profile

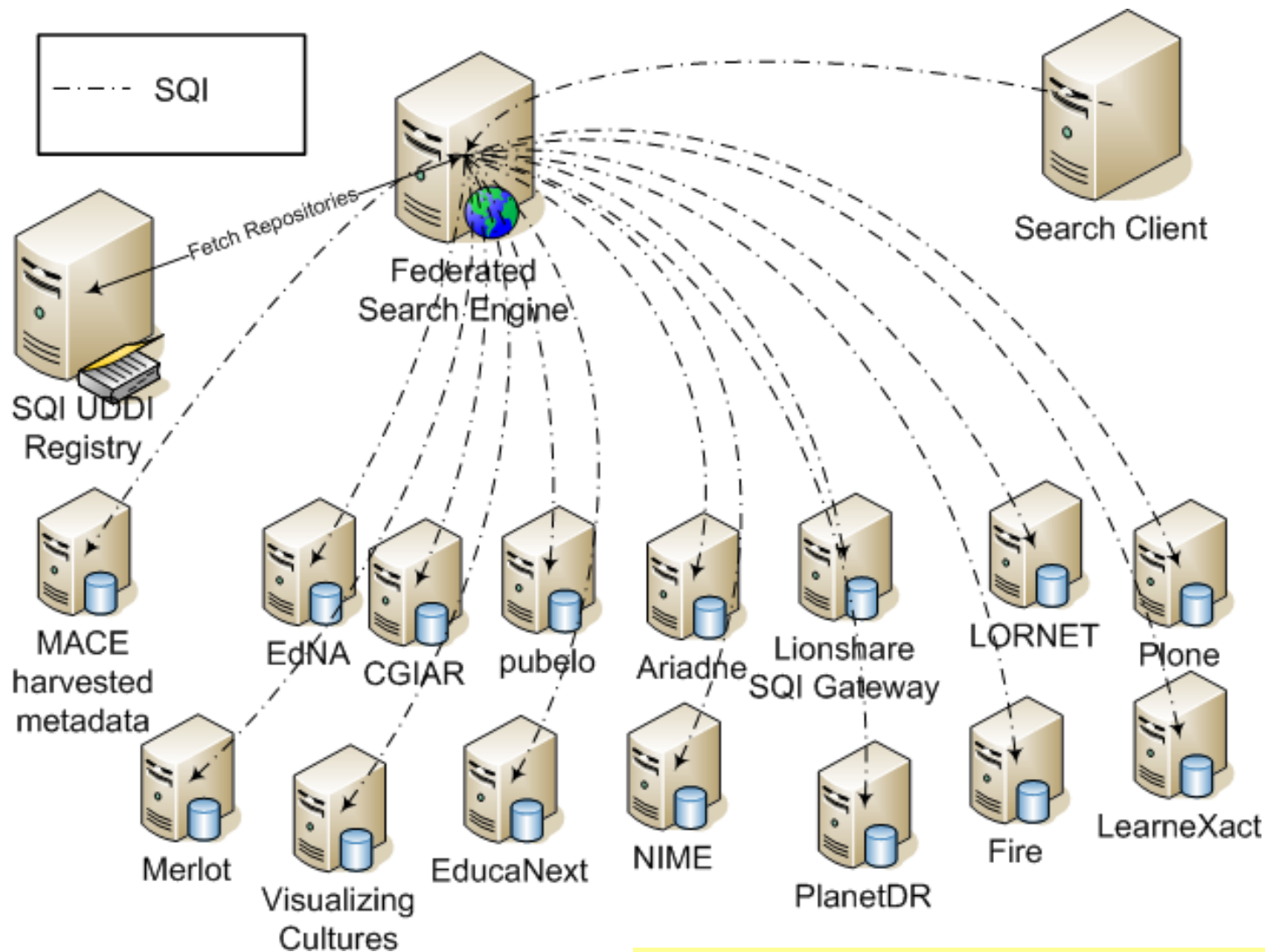
## Query Types



- in a given language (LOM 1.3)
- described by metadata in a given language
- of a given structure
- with a given status (e.g., draft)
- targeting an audience within a given age range
- licensed under a given creative commons license
- authored by a given author
- of a given "learning resource type"
- created at a given creation date
- of a given mime-type
- covering a given curriculum subject (competencies)
- described with a given LRE thesaurus descriptor

Source: Ternier et al. (2008). Interoperability for Searching Learning Object Repositories The ProLearn Query Language. DLib Magazine, 14(1/2). <http://www.dlib.org/dlib/january08/ceri01ceri.html>

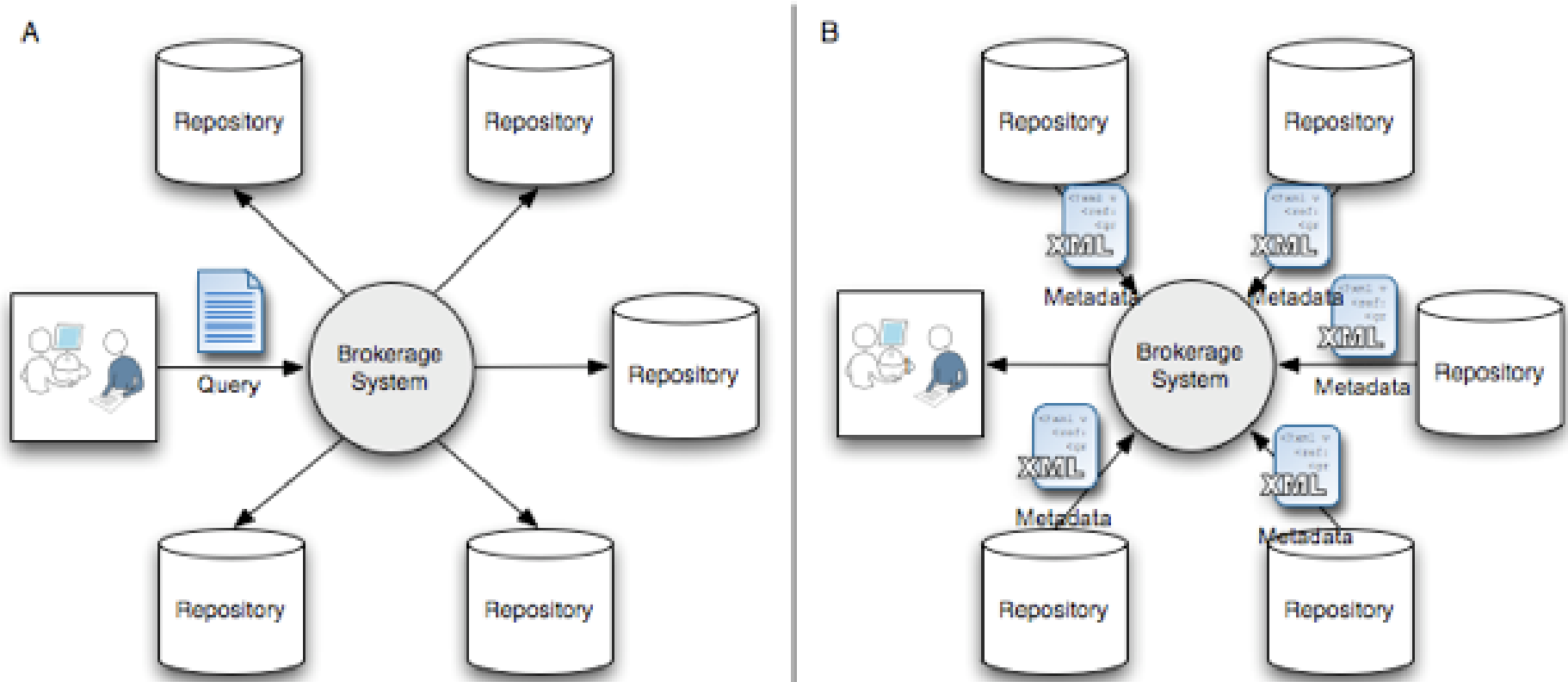
# Architecture of LORs (GLOBE)



Source: Ternier et al. (2008). **Interoperability for Searching Learning Object Repositories The ProLearn Query Language**. DLib Magazine, 14(1/2). <http://www.dlib.org/dlib/january08/ternier.html>



# LRE Federated Searching



Source: Ternier et al. (2008). Interoperability for Searching Learning Object Repositories The ProLearn Query Language. DLib Magazine, 14(1/2). <http://www.dlib.org/dlib/january08/ternier.html>

# Interoperability



Browser tabs: Facebook, Sun Ja..., Access..., Open..., OER In..., Katilim..., "open...", New Tab, JISC C...

Address bar: http://jisc.cetis.ac.uk/

Search: Other bookmarks

## JISC cetis

Supporting Innovation and Interoperability in Educational Technology

Log in

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- Events
- Comment
- Topics
- Publications
- Contact

### Events

- Repositories and the Open Web**  
Date: 19 Apr 2010
- Third QTI Profiling working group meeting**  
Date: 26 Apr 2010
- Real-time Services in Education**  
Date: 08 May 2010
- Mobile technologies, and Augmented Reality applications**  
Date: 07 Jun 2010 to 18 Jun 2010
- Design Bash**  
Date: 16 Jul 2010

events

JISC CETIS, the Centre for Educational Technology and Interoperability Standards, provides advice to the UK Higher and Post-16 Education sectors on educational technology and standards. This web site brings together educational technology news, comment and analysis, as well as information on our community events. Our aim is to contribute to current debates and future thinking in this rapidly growing and changing field.

Presentations and resources from the recent **Distributed Learning Environments - re-inventing the VLE meeting**

### Comment and Analysis



#### Relationship Management: So Long, and Thanks for All the Hamsters

16 Apr 2010 Sharon's Blog

The final JISC Relationship Management Programme Meeting was held in York at the end of March. Here are a few of the key points from the Programme findings



### News and Funding

**Grant 06/10: Higher Education Academy/JISC Open Educational Resources Programme Phase 2: Call for Projects**  
16 Apr 2010 JISC funding

**JISC ITT: Study on Large-Scale e-Portfolio Implementations**  
12 Apr 2010 JISC funding

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# GLOBE: Global Learning Objects Brokered Exchange



http://globe-info.org/en/aboutglobe

Bağlantıları Özelleştir

Home About News

## GLOBE

Search

### Menu

- Home
- About
- News

### About GLOBE

Organizations from around the world have formed a global alliance to make shared online learning resources available to educators and students around the world.

The Global Learning Objects Brokered Exchange (GLOBE) alliance was established between the following founding members: the ARIADNE Foundation in Europe, Education Services Australia, LORNET in Canada, Multimedia Educational Resources for Learning and Online Teaching (MERLOT) in the USA, and National Institute of Multimedia Education (NIME) in Japan. These organizations have committed to work collaboratively on a shared vision of ubiquitous access to quality educational content. Since its inception, GLOBE has attracted the interest of other organisations with similar goals and as a result, the GLOBE community continues to grow. The following list represents the current GLOBE member organisations:

- AL-Quds University
- Ariadne Foundation
- COSL (The Center for Open and Sustainable Learning)
- Education Services Australia
- European Schoolnet
- III (Institute for Information Industry, Taiwan)
- ISKME (the Institute for the Study of Knowledge Management in Education)

### Key Resources

- GLOBE Business Plan v1 6.doc

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Navigation: Home, About, News

Search bar:  Search

Menu: Home, About, News

Search GLOBE

Search

*Connecting the World and Unlocking the Deep Web*

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# OCW Finder



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About : Add Your OCW

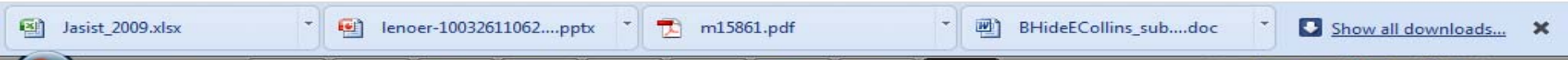
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Developed by Tatemaie for the Center for Open and Sustainable Learning with funding from the National Science Foundation and the Andrew W Mellon Foundation

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## Introduction to Information Architecture

**Module by:** [Peter Howell](#). ✉️ [E-mail the author](#)

**User rating (?)**: ☆☆☆☆☆ (0 ratings)

**Summary:** This hands-on course examines issues related to information architecture as it applies to a medium-sized community college web site.

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### Exploring Information Architecture

Information architecture (IA) considers the study of information and how we find it and use it. In this course we will be studying various methods of making information more findable, and how to manage the growing size of our "library".

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[CITATION] The evolution of **Information Architecture**  
E Yunus, YA Rahman, A Abdul - ... , 2008. ITSIm 2008. International Symposium on, 2008  
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- Founded in 2007 (TAS & HEC)
- Has about 60 members
- Provides free access to course materials (syllabi, slides, lecture notes, audio-video records, and so on)
- Some MIT's OpenCourseWare will be translated and made available
- Some members offer several courses through OpenCourseWare web sites.




# TOCC Web Site

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### TÜBA Açık Ders Malzemeleri Projesi (2010) Çeviri/Telif Ders Hazırlama Başvuruları

DPT tarafından desteklenen bu proje kapsamında hazırlanacak derslerin UADMK Web sitesi üzerinden herkesin erişimine açık olacak şekilde yayınlanması hedeflenmiştir.

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- Moleküler Biyoloji ve Genetik
- Fizik ve Astrofizik
- Kimya

Ara

Ara

### Duyurular ve Faaliyetler

Cecilia d'Oliveira'nın I. UADM Çalıştay'ında yaptığı sunumun videosu eklemiştir. [Tıklayınız...](#)

2. Genel Kurul Toplantısı gerçekleştirildi. [Ayrıntılı bilgi](#)

Prof. Dr. A.Ekrem ÖZKUL' un Akademik Bilişim 08 konferansında varmış olduğu "Türkiye

### Zivaretcı Trafiki

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Ana sayfa

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Ege Üniversitesi	Bilgisayar ve Öğretim Teknolojileri Eğitimi Bölümü'nden 4 dersi sunmaktadır.
Hacettepe Üniversitesi Açık Ders Malzemeleri	Hacettepe Üniversitesi, Açık Ders Malzemeleri sitesinde üç bölümden 6 dersi sunmaktadır.
ODTÜ Açık Ders Malzemeleri	Orta Doğu Teknik Üniversitesi, Açık Ders Malzemeleri sitesinde farklı bölümlerden 44 dersi sunmaktadır.

**Ara**

bilgi Ara

### Duyurular ve Faaliyetler

Cecilia d'Oliveira'nın I. UADM Çalıştay'ında yaptığı sunumun videosu eklemiştir. Tıklayınız...

2. Genel Kurul Toplantısı gerçekleştirildi. Ayrıntılı bilgi

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### Ziyaretçi Trafigi

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# Universities with OER web sites



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**Merhaba,**

Başkent Üniversitesi, "Açık Ders Materyalleri Kapısı"na hoşgeldiniz.

Bu kapı sayesinde:

- Açık Ders Materyalleri Projesi ile ilgili bilgi alabilir,
- Üniversitemiz bünyesinde hazırlanan ve kullanıma açılan dersleri inceleyebilir,
- Türkiye'de ve Dünya'da erişime açılan "açık ders malzemeleri"ne erişebilir,
- Ayrıntılı bilgi ve destek için "Açık Ders Materyalleri Koordinatörü" ile iletişime geçebilirsiniz.

Internet | Korumalı Mod: Açık

4 Windows Gezgini

3 Internet Explorer

Microsoft Word

TR Masaüstü

12:52

# MITOS Open Access System



MITOS  
Ulusal Üniversitelerarası Açık Erişim Sistemi

Uluslararası Standartlar  
Açık Arşiv Sistemi (Open Access Initiative) Standartları, kayıtlı yayınlar, veritabanlarında

İstatistik  
Toplam Yayın Sayısı: 8656  
Nisan Ayında Eklenecek Yayın Sayısı: 59  
Toplam Kütüphane Sayısı: 11

## MITOS Açık Erişim Sistemine Hoş Geldiniz.

- Serbestçe erişilen bilimsel çalışmalar kullanıldığında yeniden bilgiye dönüşür ve üretilen orijinal bilgi orijinalliğini yitirmeden gelişir. Bu nedenle açık arşiv oluşturma düşüncesi kaçınılmazdır. Oluşturulacak arşiv ile sadece bilgiye erişim değil, aynı zamanda kurumsal boyutta üretilen bilginin saklanması ve depolanması anlayışı ile gelecek nesillere aktarılması amaçlanmaktadır.
- Günümüzde hızla artan kaynakların düzenli olarak akademik birimlere iletilmesinde önemli bir görev üstlenmiş bulunan üniversite bilgi merkezi çalışanlarının mevcut iş yüklerine ek olarak bir taraftan da üniversite akademisyenlerine ulaşarak her birinden kendi makale ve bildirimlerini alarak böyle bir açık erişim sistemini oluşturmaları çok uzun süreler alacak bir projedir.
- Dünya'da bir çok uygulaması bulunan "Open Access" çalışmalarına paralel olarak Türkiye'de de ANKOS kapsamında "Ulusal Üniversitelerarası Açık Erişim Projesi" çalışması başlatılmıştır.

En Son Eklenecek Yayınlar

The involvement of ceramide metabolizing genes and their products in docetaxel induced apoptosis in human prostate cancer cells  
Baran, Yusuf (Tez Danışmanı)  
Başsoy, Esen Yonca (Öğrenci)

Design, construction and expression of a synthetic gene for metal binding proteins  
Şanlı, Mohamed, Gülşah (Tez Danışmanı)  
Bal, Erhan (Öğrenci)

Examination of deterioration problems of andesite used in aigai

Jasist\_2009.xlsx | lenoer-10032611062....pptx | m15861.pdf | BHideCollins\_sub....doc | 18 Nisan 2010 Pazar

# Free Access..



GGIT538-EN: - Windows Internet Explorer

http://ocw.metu.edu.tr/course/view.php?id=61

Diigo Customize Search

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MIDDLE EAST TECHNICAL UNIVERSITY  
METU OpenCourseWare

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E-Mail: [its@metu.edu.tr](mailto:its@metu.edu.tr)  
<http://its.metu.edu.tr>

Windows taskbar: 4, 4, 5, TR Masaüstü, 08:14





- Organizational issues
  - Skills of planning, organization and administration of OERs
- Cultural and educational issues
  - “the concept of re-usable learning objects has hardly registered with the average “chalkface” academic in Higher Education.”
- Lack of institutional commitment
- Intellectual Property Rights
- Adherence to metadata and interoperability standards (i.e., LOM, OAI-PMH)
- Lack of effective search mechanisms

Source for quotation: Davis et al. (2009). Bootstrapping a Culture of Sharing to Facilitate Open Educational Resources. IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES. <http://eprints.ecs.soton.ac.uk/17386/1/DavisPaper.pdf>



- Business models
- Investment in training and support
- Lack of ontology-based educational Semantic Webs
- Library services may be slow to find their place in open learning environments – it is widely felt that libraries will need to adapt better to the considerable changes in information behaviour and Web-based environments.

Source: Fleming, C & Massey, M. (2007). Jorum Open Educational Resources (OER) Report, p.22

# The OLCOS Roadmap 2012

## Recommendations for LORs



- Do not follow a ‘top-down’ strategy of delivering learning objects; instead empower teachers and learners;
- Support individual content creators and communities of practice with useful tools and services;
- Make licensing of content as easy as possible;
- Allow for easy discovery and access to resources;
- Assist open content initiatives in the creation of rich metadata and provide semantically enhanced access to resources.

Source: Fleming, C & Massey, M. (2007). Jorum Open Educational Resources (OER) Report, p.23



- Intellectual Property Rights (IPR)
- Quality Control
- Bandwidth
- Cost

Source: Fleming, C & Massey, M. (2007). Jorum Open Educational Resources (OER) Report, p.27



- Awareness of OA, IRs and OERs should be increased
- **“Users see the value of sharing, but altruistic sharing is not a good enough incentive on its own.”**
- OA, IRs and LORs have to be dealt with on a higher level (i.e., TGNA, SPO, Turkish NSF and HEC)
- Visibility of LORs
- Interoperability of and record exchange among LMSs, VLEs, LORs, etc.
- Librarians to expand their thinking about IRs (institutional repositories), for example, to archive educational materials.

Source for quotation: Davis et al. (2009). Bootstrapping a Culture of Sharing to Facilitate Open Educational Resources. IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES. <http://eprints.ecs.soton.ac.uk/17386/1/DavisPaper.pdf>



“Stewardship is easy and inexpensive to claim; it is expensive and difficult to honor, and perhaps it will prove to be all too easy to later abdicate. Institutions need to think seriously before launching institutional repository programs”.



# Open Archives and Institutional Repositories for Open Educational Resources: Challenges Ahead for Turkish Universities

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