

Universitatea Politehnica Timisoara

# ***METODE DE CERCETARE BIBLIOGRAFICA SI DE EVALUARE A CALITATII RESURSELOR***

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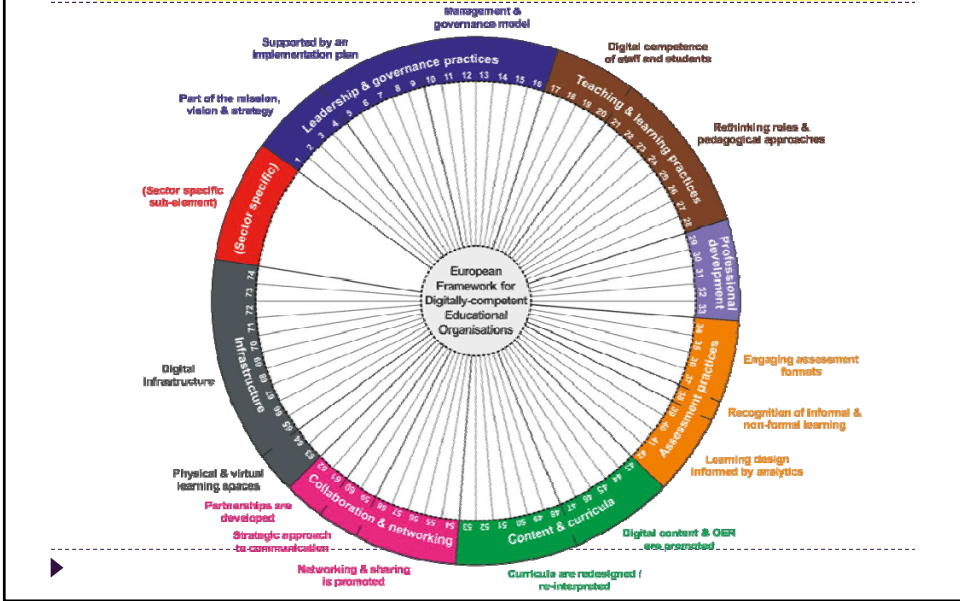
## **1. Tehnologia informatiei ca si unealta de cercetare**

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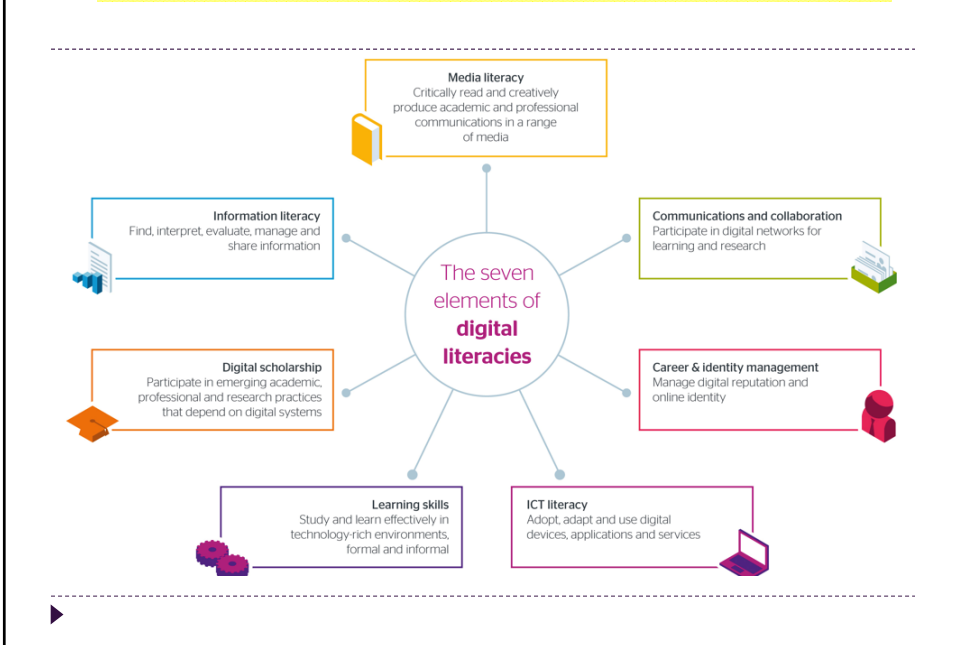
- ▶ Impartasirea experientei de cercetare utilizand IT
- ▶ comunicarea intre colegi, crearea echipei de cercetare: local, national, international
- ▶ crearea unui site personal care sa contina tema de cercetare, lucrari publicate, domenii de interes
- ▶ comunicarea si introducerea de informatii in blogs – participarea pe forumuri/blogs specializate
- ▶ Comunicarea si introducerea de informatii in retele tematice
- ▶ Utilizarea Campusului Virtual al UPT



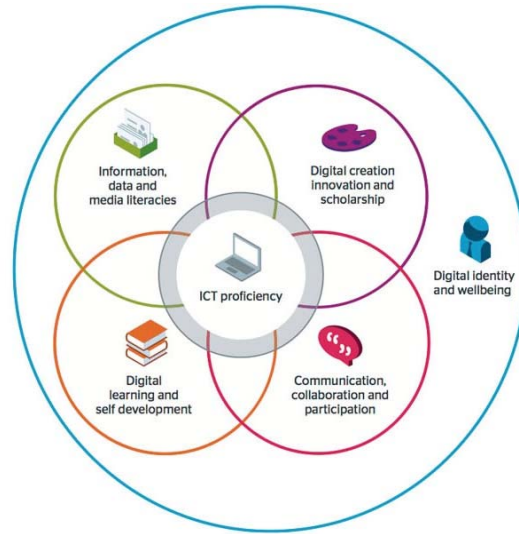
Promoting Effective Digital-Age Learning - JRC Science Report  
<https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/promoting-effective-digital-age-learning-european-framework-digitaly-competent-educational>



<https://www.jisc.ac.uk/guides/developing-students-digital-literacy>



<https://www.jisc.ac.uk/guides/developing-students-digital-literacy>



### Digital Literacy

(Steve Wheeler <http://steve-wheeler.blogspot.co.uk/>)



## Google

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- ▶ Cautare – Scholar <http://scholar.google.com/>
  - ▶ Utilizatorul trebuie sa posede cont google de tip gmail
  - ▶ Gmail, igoogle, maps, images (Picassa)
  - ▶ Documente (doc, xls, ppt)
  - ▶ <http://docs.google.com/?hl=ro&tab=wo#all>
  - ▶ Site
  - ▶ <http://sites.google.com/?tab=o3&pli=l>
  - ▶ Blog
  - ▶ <https://www.blogger.com/start?hl=ro&pli=l>
  - ▶ Language
  - ▶ [http://www.google.com/language\\_tools?hl=en](http://www.google.com/language_tools?hl=en)
  - ▶ Books
  - ▶ <http://books.google.com/bkshp?hl=en&tab=wp>
  - ▶ Labs
  - ▶ <http://labs.google.com/>
- 

## Motoare de cautare - alte

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- ▶ <http://www.deepdyve.com/> - motor de identificare si inchiriere de resurse
  - ▶ <http://www.wolframalpha.com/> Motor de cautare semantic
  - ▶ <http://www.hakia.com> Motor de cautare semantic
  - ▶ <http://dogpile.com/> generator motor de cautare
  - ▶ <http://citeseer.ist.psu.edu/>
-

## Cautarea practica:

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- ▶ <http://scholar.google.com/>
  - ▶ [Advanced Scholar Search](#)
  - ▶ [Scholar Preferences](#)
  - ▶ [Scholar Help](#)
- 
- ▶

## cautare

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- ▶ Kinshuk
  - ▶ [http://www.google.com/search?source=ig&hl=en&rlz=|G|GGLQ\\_ENRO307&=&q=kinshuk&btnG=Google+Search&aq=f](http://www.google.com/search?source=ig&hl=en&rlz=|G|GGLQ_ENRO307&=&q=kinshuk&btnG=Google+Search&aq=f)
  - ▶ <http://scholar.google.com/scholar?q=kinshuk&hl=en&lr=&btnG=Search>
  - ▶ Steve Wheeler
  - ▶ <http://www2.plymouth.ac.uk/distancelearning/steve.html>
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- ▶

## Rezultat Scholar

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- ▶ [Comparing algorithm for dynamic speed-setting of a low-power CPU](#) - ▶ [stanford.edu](#) [PS]  
K Govil, E Chan, H Wasserman - Proceedings of the 1st annual international conference on ..., 1995 - portal.acm.org  
To take advantage of the full potential of ubiquitous computing, we will need systems which minimize power- consumption. Weiser et al. and others have suggested that this may be accomplished by a CPU which dynam- ically ...  
[Cited by 336](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 8 versions](#)
- 



## cautare

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- ▶ E-learning
  - ▶ [http://www.google.com/search?hl=en&rlz=1G1GGLQ\\_ENRO307&q=e-learning&btnG=Search](http://www.google.com/search?hl=en&rlz=1G1GGLQ_ENRO307&q=e-learning&btnG=Search)
  - ▶ <http://scholar.google.com/scholar?hl=en&lr=&q=e-learning&btnG=Search>
  - ▶ Cautare lucrare dorita fara acces la baza de date
  - ▶ [http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6W4X-45679XY-C&\\_user=10&\\_rdoc=1&\\_fmt=&\\_orig=search&\\_sort=d&view=c&\\_acct=C000050221&\\_version=1&\\_urlVersion=0&\\_userid=10&md5=7ed2e21e58e8b524643f82c768723b42](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6W4X-45679XY-C&_user=10&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=7ed2e21e58e8b524643f82c768723b42)
  - ▶ [http://www.google.com/search?hl=en&rlz=1G1GGLQ\\_ENRO307&q=%22Thavamalar+Govindasamy%22&btnG=Search](http://www.google.com/search?hl=en&rlz=1G1GGLQ_ENRO307&q=%22Thavamalar+Govindasamy%22&btnG=Search)
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## BLOG

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- ▶ *Definitie:*
- ▶ A **blog** (or **weblog**) is a website in which messages are posted and displayed with the newest at the top. Like other media, blogs often focus on a particular subject, such as food, politics, or local news. Some blogs function as online diaries. A typical blog combines text, images, and links to other blogs, web pages, and other media related to its topic. Since its appearance in 1995, blogging has emerged as a popular means of communication, affecting public opinion and mass media around the world.

- ▶ Blog personal in CVUPT

- ▶ Exista site care ofera gazduire de blogs:

- ▶ <http://www.blogger.com/>
- ▶ <http://wordpress.com/>



Stephen Downes



## BLOG

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- ▶ <http://www.timsoft.ro/weblog/index.php>
- ▶ <http://steve-wheeler.blogspot.com/>
- ▶ <http://www2.plymouth.ac.uk/distancelearning/steve.html>
- ▶ <http://fraser.typepad.com/edtechuk/> - al unei studente la doctorat
- ▶ <http://edtechpost.ca/mt/>
- ▶ <http://googleblog.blogspot.com/>
- ▶ e-learning
- ▶ <http://www.downes.ca/>
- ▶ <http://www.elearnspace.org/blog/>



## WIKI

- ▶ Wikipedia
- ▶ Nu este resursa academica, dar poate fi prima sursa de informatie
- ▶ [www.wikipedia.org](http://www.wikipedia.org)
- ▶ <http://en.wikipedia.org/wiki/Elearning>
- ▶ Wiki - subiectul de cercetare – crearea unui nou articol wiki

The screenshot shows a web browser displaying a Wiki page on the 'Campus Virtual' website. The page title is 'Tendințe multimedia'. The content includes a search bar, navigation links, and a list of multimedia technologies such as DLNA, Multitouch screen, CUBIT, and PDA. The page also features a 'Reload this page' button and a 'View Edit Links History' menu.

**Tendințe multimedia**

Tehnologii moderne  
 Ce sunt PDA-urile?  
 Idenone  
 Viziune  
 DLNA  
 Multitouch screen  
 CUBIT  
 Perceptive Pixel  
 MPIS  
 Promethean Multuser Activboard  
 Notebook compact  
 LED TV

Tehnologii moderne  
 Aplicatiile multimedia au transformat relatile dintre fiintele umane. Ele au simplificat si au imbunatatit relatiile dintre oameni si aparate. Descoperirile tehnologiei au dus la miniaturizarea componentelor electronice si au creat astfel calculatoare din ce in ce mai mici si, prin urmare, mai usor de transportat. Calculatoarele portabile pot fi dotate cu o unitate CD-Rom, un modem si un telefon mobil. Astfel putem telefona usor, putem trimite si primi faxuri sau putem intra in rețeaua Internet, oriunde ne-am afla. Pe piata si-au facut aparitia PDA-urile.

**Ce sunt PDA-urile?**  
 PDA (Personal Digital Assistant) reprezinta o adevarata centrala de comunicare fara fir. Ea combina functiile unei agende electronice, ale unui reperator telefonic, ale procesorului de texte, ale MiniTelului, ale faxului si ale postei electronice. Toate datele inregistrate pe PD pot fi transferate pe un calculator. Probabil ca in curand vor fi puse in vanzare si alte aparate mobile.

**Tendințe**  
 Se lucreaza, de exemplu, la realizarea unor ecrane de televizor plate si subțiri, groase de numai cativa milimetri. Printre altele, ecranele portabile de dimensiunea unei cărți in format de buzunar vor permite incarcarea directa a paginilor unui ziar sau ale unui roman pe un calculator portabil. Generatia următoare de aparate mobile va oferi o gama de servicii noi, care vor fi disponibile in orice moment si in orice loc.



## Crearea “network”

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- ▶ <http://twitter.com/>
- ▶ <http://www.linkedin.com/>
- ▶ <http://www.ning.com/>
- ▶ <http://academia.edu/>
- ▶ <http://www.researchgate.net>
- ▶ <http://wereal.com/>
- ▶ <http://www.plaxo.com/>
  
- ▶ [http://www.ieee.org/membership\\_services/index.html#sect3](http://www.ieee.org/membership_services/index.html#sect3)



## OPEN SCHOLAR

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Open Scholar is someone who makes their intellectual projects and processes digitally visible and who invites and encourages ongoing criticism of their work and secondary uses of any or all parts of it--at any stage of its development”.

— Gideon Burton Academic Evolution Blog



## Open Scholars creeaza:

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- **Un nou model educational care maximizeaza:**
  - Educatia in mod social
  - Utilizarea elementelor multimedia
  - Pedagogii participatorii si conectiviste
  - Procesul de colectare si utilizare open data
  - Realizeaza conectiuni si retele de cunoastere



## Open Educational Resources

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## Open Educational Resources

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- ▶ Resursele educaționale deschise (Open Educational Resources) se referă la accesul deschis la resurse educaționale, facilitat de tehnologiile informației și comunicațiilor, pentru consultare, utilizare și adaptare de către comunitatea utilizatorilor, în scopuri necomerciale.
  - ▶ Termenul a fost adoptat la Forumul UNESCO din 2002, la care s-a analizat impactul pe care proiectele Open Courseware le au asupra învățământului superior.
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## Open Educational Resources

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### Ce cuprind?

- ▶ Resursele educaționale deschise cuprind:
    - ▶ materiale pentru predare-învățare: proiecte deschise (open courseware și open content), cursuri free, directoare de obiecte de învățare (learning objects), jurnale educaționale;
    - ▶ software open source - pentru dezvoltarea, utilizarea, reutilizarea, căutarea, organizarea și accesul la resurse; includ și medii virtuale de învățare ( LMS - Learning Management Systems ), comunități de învățare;
    - ▶ licențe de proprietate intelectuală care promovează publicarea deschisă a materialelor, principii de design și bune practici, localizarea conținutului.
- 



## Open Educational Resources

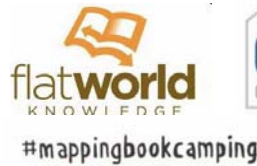
# OPEN CULTURE



Because it saves time!!!



## Open Educational Resources





## MOOC

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- ▶ In 2008, George Siemens and Stephen Downes co-taught a class thought to be the first to use the term MOOC. The course, called “Connectivism and Connective Knowledge,” was presented to 25 tuition-paying students at the University of Manitoba and offered at the same time to around 2,300 students from the general public who took the online class at no cost.
  - ▶ <http://jolt.merlot.org/vol9no2/abstracts.htm>
- 



## MOOC Online Free Education

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- ▶ Khan Academy

Learn almost anything for free

Examples: money supply, mitosis, determinant, Leonardo's Last Supper

**Explore computer science**  
Create beautiful art and design your own simulations while learning how to program.

**Learn about the Greek debt crisis**  
Get a primer on why Greece is in such a tough position in this multi-part series.

**Practice your math skills**  
Practice your math skills from addition to calculus and everything in between.



# MOOC

► **Udacity** – <http://www.udacity.com/>

Take any of our 14 classes. 100% free!

Join a community of 112,091 active students and instructors. 100% free!

Optionally certify your skills online or in one of our 4,500 testing centers, for a fee.

Optionally let us hand your resume to one of our 20 partner companies. 100% free for students!

<b>Intro to Computer Science</b> Building a Search Engine Beginner	<b>Intro to Physics</b> Landmarks in Physics Beginner
<b>Intro to Statistics</b> Making Decisions based on Data Beginner	<b>Web Development</b> How to Build a Blog Intermediate
<b>Programming Languages</b> Building a Web Browser Intermediate	<b>Software Debugging</b> Automating the Boring Tasks Intermediate
<b>Differential Equations</b> Making Math Matter Intermediate	<b>Software Testing</b> How to Make Software Fail Intermediate
<b>Algorithms</b> Crunching Social Networks Intermediate	<b>Intro To Theoretical Computer Science</b> Dealing with Challenging Problems Intermediate
<b>How to Build a Startup</b> The Lean LaunchPad Intermediate	<b>Artificial Intelligence</b> Programming a Robotic Car Advanced
<b>Design of Computer Programs</b> Programming Principles Advanced	<b>Applied Cryptography</b> Science of Secrets Advanced



# MOOC

► **Coursera** <https://www.coursera.org/>

**coursera** COURSES JOBS ABOUT ▼ LOGIN

Take the World's Best Courses, Online, For Free.

Join **1,289,330** Courserians

Just finished the Coursera Machine Learning course by Stanford University! Excellent course and have used stuff in the real world already! - Chris Ballard

Learn with videos, quizzes, and assignments | Interact with thousands of other students | Advance your knowledge and career

124 COURSES View All 124 Courses >

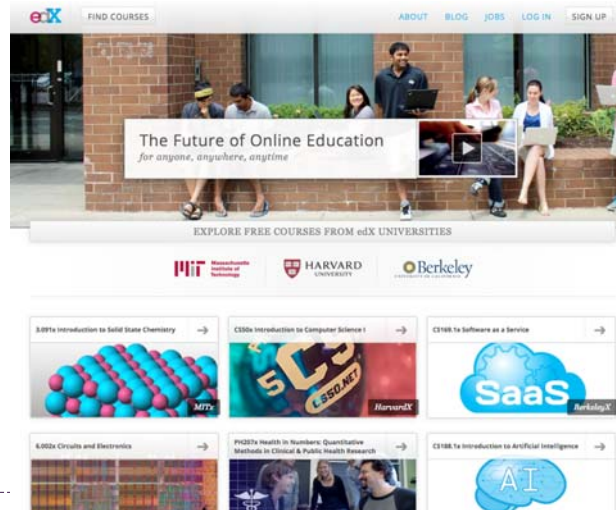
<p><b>Organizational Analysis</b> Stanford University Starts in 13 days</p>	<p><b>Greek and Roman Mythology</b> University of Pennsylvania Starts in 13 days (10 weeks long)</p>	<p><b>Computing for Data Analysis</b> Johns Hopkins University Starts in 13 days (4 weeks long)</p>	<p><b>Securing Digital Democracy</b> University of Michigan Started 8 days ago (6 weeks long)</p>
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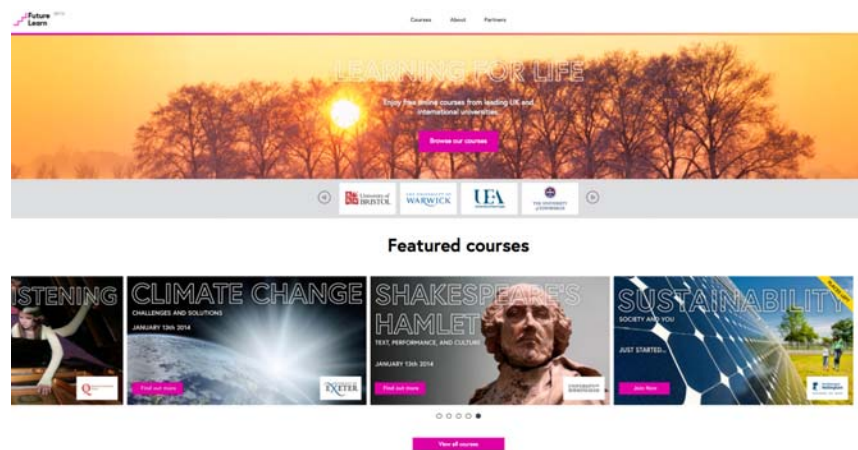
# MOOC

edX <https://www.edx.org/>



# MOOC

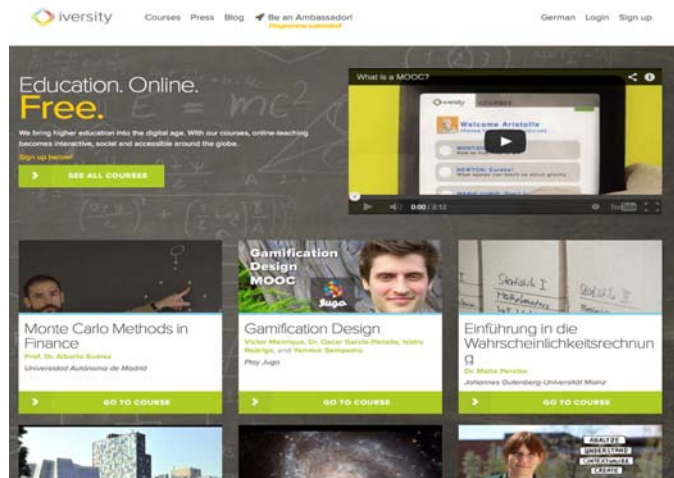
Future Learn <https://www.futurelearn.com/>





# MOOC

► Iversity <https://iversity.org/>

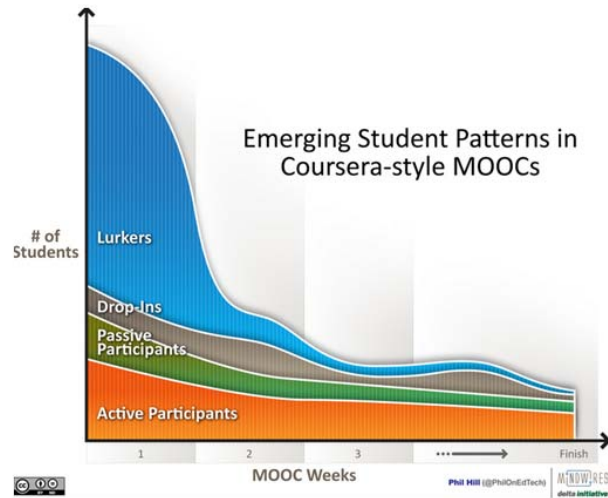


# MOOC

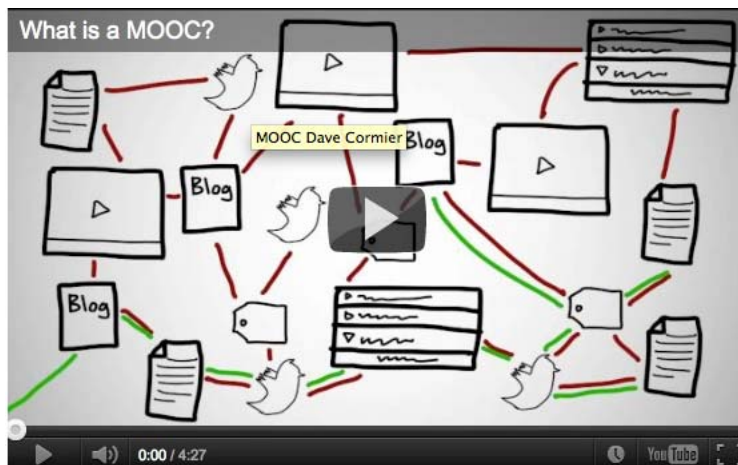
► OpenUpEd <http://www.openuped.eu/>



## MOOC - statistici



## How to Learn in a cMOOC



<http://www.tonybates.ca/2012/03/03/more-reflections-on-moocs-and-mitx/>



# What is UniCampus?

# What is UniCampus?

## 2. Informatia calitativa

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- ▶ Ce trebuie sa gasesti intr-o pagina web ca sa identifici sursa:
  - ▶ Validitatea (info copyright, ultima data postata)
  - ▶ Reputatia sursei de informare
    - ▶ Recenzia de catre persoane autorizate
    - ▶ Institutia care publica
    - ▶ Autorul
    - ▶ Data
    - ▶ Contextul
    - ▶ Referinte citate, citarea in alte lucrari
    - ▶ Relevanta



## 2. Informatia calitativa

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- ▶ Ce trebuie sa gasesti intr-o pagina ca sa identifici sursa
  - ▶ Relevanta fata de subiect
    - ▶ - cuprinzator
    - ▶ - unicitatea
    - ▶ - compozitia lucrarii



## Accesarea validitatii:

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- ▶ recomandarea altora: implicita sau explicita
  - ▶ autori recunoscuti
  - ▶ reproducerea sau existenta lucrarii originale
  - ▶ organizatia / institutia
  - ▶ site jurnal, baze de date online recunoscute
  - ▶ recunoasterea termenilor consacrați
  - ▶ utilizarea de portaluri consacrate
  - ▶ se prefera site cu : .edu, .ac.uk, .org, .net
  - ▶ se trateaza cu precautie site cu: .com, pagini fara evidenta copyright si data de publicare, redirectionari tendentioase - mircosoft.com
- 



## Salvarea Informatiei si citarea

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- ▶ tipariti si pastrati copii pe hartie
  - ▶ site si pagini web sunt in continua miscare si modificare (capturi de ecran, salvari)
  - ▶ cautati intotdeauna ultima varianta a unei lucrari sau publicatii
  - ▶ arhiva; google (cache sau arhiva online) sau [www.archive.org](http://www.archive.org) pentru arhive de pagini web disparute
  - ▶ citarea trebuie sa contina adresa web exacta si data cand a fost accesata
  - ▶
  - ▶ Exemplu:
  - ▶ Goldstein, M. L. (2004) Problems with fitting to the power-law distribution. The European Physical Journal B 41(2) at [http://www.springerlink.com/\(flsv102c2enufhabuq4c5055\)/app/home/contribution.asp?referrer=parent&backto=issue,1,18;journal,184,197;linkingpublicationresults,1:101159,1&displayreferrers=true#referrers](http://www.springerlink.com/(flsv102c2enufhabuq4c5055)/app/home/contribution.asp?referrer=parent&backto=issue,1,18;journal,184,197;linkingpublicationresults,1:101159,1&displayreferrers=true#referrers) Last accessed at 5/04/2006
- 



## Crearea Bibliotecii personale

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- ▶ <http://www.citeulike.org/>
  - ▶ <http://digg.com/>
  - ▶ <http://www.diigo.com/>
  - ▶ <http://www.delicious.com/> - online bookmarks
  - ▶ <http://www.stumbleupon.com/>
- 

## Citarea

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- ▶ IEEE Style
- ▶ Harvard Style

### Referencing

- ▶ VERY important in professional writing
- ▶ Provides justification for the developing argument (...*shoulders of giants*)
- ▶ Gives the reader the means to follow-upon the paper's theme
- ▶ Should follow a particular (given?) style - consistency

### Referencing styles

- ▶ There are many referencing styles
- ▶ Journals/ conferences will have their own preferred style (authors' guides)
- ▶ Be consistent
- ▶ IT prefers the IEEE or the Harvard Style
- ▶ Many other guides available in book form and online

### Annotated bibliographies

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## Citarea

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- ▶ Software local:
  - ▶ EndNote <http://www.endnote.com/>
  - ▶ BibTex <http://www.bibtex.org/>
  
  - ▶ Software online:
  - ▶ <http://www.zotero.org/>
  - ▶ <http://www.easybib.com/>
- 



## Baze de date online

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- ▶ <http://www.library.upt.ro/> - resurse electronice
  - ▶ [http://aleph.library.upt.ro/F/?func=option-update-Ing&file\\_name=find-b&F2=pc-latin&P\\_CON\\_LNG=RUM](http://aleph.library.upt.ro/F/?func=option-update-Ing&file_name=find-b&F2=pc-latin&P_CON_LNG=RUM)
  - ▶ [http://library.upt.ro/index.html?resurse&47motoare&Baze\\_de\\_date\\_online&7](http://library.upt.ro/index.html?resurse&47motoare&Baze_de_date_online&7)
  - ▶ <http://library.upt.ro/index.html?colectii&22periodice&Periodice&2>
  - ▶ [Safari tech books online](#) – conține cărți full text din domeniul IT. Pot fi descărcate;
  
  - ▶ Elsevier
  - ▶ [http://www.elsevier.com/wps/find/homepage.cws\\_home](http://www.elsevier.com/wps/find/homepage.cws_home)
  - ▶ <http://www.sciencedirect.com/>
  - ▶ Ingenta
  - ▶ <http://www.ingentaconnect.com/>
  - ▶ IEEE
  - ▶ <http://www.ieee.org/portal/site>
  - ▶ ASME
  - ▶ <http://www.asme.org/>
  - ▶ Taylor & Francis
  - ▶ <http://taylorandfrancis.metapress.com/>
  
  - ▶ <http://europeana.eu/portal/>
- 



## Free ebooks, libraries

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- ▶ <http://www.gutenberg.org/>
- ▶ <http://onlinebooks.library.upenn.edu/>
- ▶ <http://www.questia.com/>
- ▶ <http://books.google.com/books?um=I&q=&btnG=Search+Books>
- ▶ <http://www.ebooks.com/>
- ▶ <http://bookos.org/>
  
- ▶ Pe site personale (ex. Jon Dron): link-uri la resurse
- ▶ <http://www.cofind.net/>
- ▶ <http://jondron.cofind.net/>
  
- ▶ <http://www2.plymouth.ac.uk/distancelearning/steve.html>

## Enciclopedii / Citari

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- ▶ Wikipedia
- ▶ <http://www.wikipedia.org/>
- ▶ <http://www.britannica.com/>
- ▶ [www.encyclopedia.com/](http://www.encyclopedia.com/)
- ▶ [encarta.msn.com/](http://encarta.msn.com/)
  
- ▶ Citari ISI Thompson: ISI Web of Science and Knowledge
- ▶ <http://www.isinet.com/>
- ▶ <http://www.isiwebofknowledge.com/>
- ▶ <http://scientific.thomson.com/products/wos/>
  
- ▶ citari
- ▶ <http://citeseer.ist.psu.edu/>



## Libraries - lista aleatoare de biblioteci online free:

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- ▶ [The Friedrich Hayek Scholars' Page](#)
- ▶ [History of Economic Thought](#)
- ▶ [Bartleby](#)
- ▶ [American Philosophy Texts](#)
- ▶ [FindLaw - U.S. Constitution](#)
- ▶ [The Online Books Page](#)
- ▶ [Athena E-texts](#)
- ▶ [The Karl Popper Web](#)
- ▶ [Mises Bibliography](#)
- ▶ [Gallica](#)
- ▶ [16th-18th Century Philosophers](#)
- ▶ [Gallica Utopie](#)
- ▶ [The Online Medieval and Classical Library](#)
- ▶ [The Online Library of Liberty](#)
- ▶ [Lonang Library](#)
- ▶ [Les classiques des sciences sociales](#)
- ▶ [EconLib](#)
- ▶ [Archive for the History of Economic Thought](#)
- ▶ [Laureati Nobel economie](#)
- ▶ [Online Economics Textbooks](#)
- ▶ [The Avalon Project \(Yale\)](#)
- ▶ [Constitution.org](#)
- ▶ [The Constitutional Dictionary](#)
- ▶ [Project Gutenberg](#)
- ▶ [Gallica Classique](#)
- ▶ [Philosophie Education Culture](#)

## Alte resurse:

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- ▶ <http://www.marcandangel.com/2010/11/15/12-dozen-places-to-self-educate-yourself-online/>
- ▶ MIT OpenCourseWare
- ▶ <http://ocw.mit.edu/OcwWeb/web/home/home/index.htm>
- ▶ Academic Earth <http://academicearth.org/>
- ▶ <http://books.google.com/>
- ▶ <http://blogsearch.google.com/>
- ▶ <http://www.ebooks.com/>
- ▶ <http://www.netlibrary.com/>
- ▶ <http://www.gutenberg.org/> - proiect al unor univ. din SUA
- ▶ <http://www.ereader.com/>
- ▶ <http://www.amazon.com/> - contine o selectie de eBooks
- ▶ <http://etext.library.adelaide.edu.au/>
- ▶ <http://www.springerlink.com/>

## Referinte

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**The Craft of Research (Chicago Guides to Writing,  
Editing and Publishing)**

[WC Booth](#)

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