



Εκπαίδευση και Web 2.0: Προκλήσεις και Προοπτικές

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ΕΥΡΩΠΑΪΚΗ ΕΝΩΣΗ



ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ



ΔΙΑΦΩΤΙΚΑ ΤΑΜΕΙΑ
της Ευρωπαϊκής Ένωσης στην Κύπρο
οι ιδέες μας, πράξη και ανάπτυξη



Research
Promotion
Foundation



Web 2.0 ...

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orkut beta

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CARDET
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& DEVELOPMENT IN EDUCATIONAL TECHNOLOGY

Επιχειρήματα υπέρ της ένταξης της τεχνολογίας (καινοτομίας) στη διδασκαλία

- Έχει εισβάλει σε όλες τις πτυχές της ζωής μας
- Είναι μέσο για οικονομική ανάπτυξη: αναπτύσσει δεξιότητες για τις ανάγκες της οικονομίας
- Πρωθεί μια «μοντέρνα» προσέγγιση στη διδασκαλία
- Βελτιώνει την επίδοση των μαθητών, προσφέρει πρόσβαση σε πληροφορίες, επικοινωνία, αλληλεπίδραση, συνεργασία, οικοδόμηση γνώσης, κλπ.
- Υποστηρίζει τη δια βίου μάθηση και προσφέρει ευελιξία (ανεξαρτησία χώρου και χρόνου)
- Παρέχει ευκαιρίες μόρφωσης σε περισσότερα άτομα / ψηφιακό χάσμα
- Ταυριάζει με τη σύγχρονη γενιά (Digital Natives) και τους τρόπους με τους οποίους έχει συνηθίσει να επικοινωνεί και να μαθαίνει

Χαρακτηριστικά της NetGen

- Χρήση τεχνολογίας
- Ενεργός συμμετοχή
- Συνεχής σύνδεση /επαφή
- Πρόσβαση σε πληροφορίες και επικοινωνίες από παντού
- Εικόνες Vs κείμενο
- Συμμετοχή σε κοινότητες μάθησης (ανεξαρτησία και αλληλεξάρτηση)
- Πολλαπλοί τρόποι επικοινωνίας
- Παράλληλη ενασχόληση
- Χαμηλά επίπεδα ανοχής;



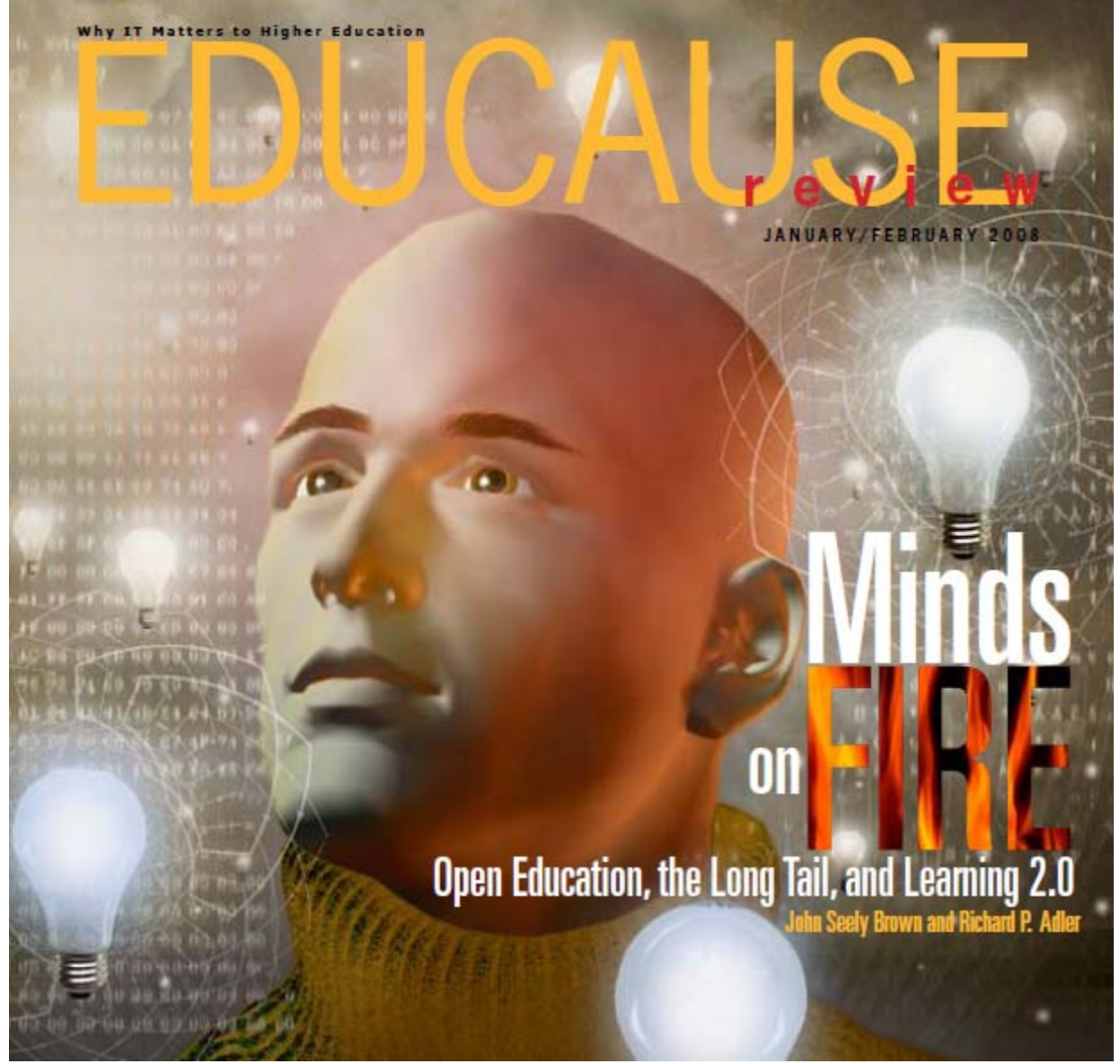
www.educause.edu

Why IT Matters to Higher Education

EDUCAUSE

review

JANUARY/FEBRUARY 2008



Minds on FIRE

Open Education, the Long Tail, and Learning 2.0

John Seely Brown and Richard P. Adler

Fostering Learning in the Networked World:

The Cyberlearning Opportunity and Challenge

A 21st Century Agenda for the
National Science Foundation

Report of the
NSF Task Force
on Cyberlearning

www.nsf.gov



THE HORIZON REPORT

- *Mobiles*
- *Cloud computing*
- *Geo-Everything*
- *The Personal Web*
- *Semantic-Aware Applications*
- *Smart Objects*

Συμμετοχική κουλτούρα του διαδικτύου



Ενεργός

Παθητικός

| | |
|--|---------------------------------------|
| Web 2.0 κουλτούρα: Pull | Σχολικής κουλτούρα: Push |
| Μαθητοκεντρική | Δασκαλοκεντρική |
| Έμφαση στη διαδικασία | Έμφαση στις πληροφορίες |
| Το περιεχόμενο καθορίζεται από τις ανάγκες των μαθητών | Το περιεχόμενο καθορίζεται από άλλους |
| Διάλογος | Μονόλογος |

EDUCAUSE – 5 προκλήσεις

- *Creating learning environments that promote active learning, critical thinking, collaborative learning, and knowledge creation.*
- *Developing 21st century literacies (information, digital, and visual) among students and faculty.*
- *Reaching and engaging today's learner.*
- *Encouraging faculty adoption and innovation in teaching and learning with IT.*
- *Advancing innovation in teaching and learning with technology in an era of budget cuts.*

Case studies and lessons learned

- *A Model for Online Teacher Professional Development (Cyprus Research Promotion Foundation)*
- *Using Webcomics in Education (EU)*
- *E-learning Analysis Tool for examining learner interactions in online environments (Cyprus Research Promotion Foundation)*
- *A framework for the design and evaluation of blended learning environments (Cyprus Research Promotion Foundation)*

Mobile Learning

<http://mlearn.cardet.org>

www.cardet.org - Mobile Learning > Home

http://cardet.org/index.php?option=com_content&task=view&id=91&Itemid=253

Mobile Learning

Technoskepsi

Promoting Argumentation in Science with the Use of Technology

Research findings suggest that the use of technology can help students engage in more meaningful science learning. Our project, Technoskepsi, aims to investigate the use of knowledge representation tools, discussion based tools and handheld technologies in formal and informal science settings as a means to promote argumentation in science.

handhelds can support argumentation in science.

The aims of the project are to:

- (a) develop a learning environment that makes use of on-line technologies and handhelds and aims to help young students to develop arguments;
- (b) investigate those features of the handhelds that might support students while they

technology and argumentation to be used as part of teacher professional development in science.

For more information

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<http://www.cardet.org>

HANDLEARN

SCIENCE LEARNING @ THE PALM OF YOUR HAND

During the past few years there have been tremendous strides in the advancement of technology with the rise of mobile devices leading to an era characterized by the instant access to and mobility of information. Mobile devices such as cellular phones, personal audio players, personal digital assistants and portable computers have re-shaped and re-defined the ways in which information is constructed, accessed and communicated among individuals and societies. This two-year long research project aims to explore the use of handheld computers as mobile learning tools within the context of inquiry-based science investigations at the elementary school. The project combines formal science learning experiences in the classroom and informal science learning experiences that take place outdoors and are driven by the question: What is the quality of the water at Athalassa Park's lake? HANDLEARN receives support from the Cyprus Research Promotion Foundation. The project's lead partner is CARDET (Centre for the Advancement of Research and development in Education Technology), and partners are the University of Cyprus, Globetech Laboratories, elearn2Learn, and Agios Antonios Elementary School.

For more information:
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www.cardet.org

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Wikipedia – Τι είναι έγκυρο;



The image shows a screenshot of the Wikipedia main page. At the top left is the Wikipedia logo, a globe made of puzzle pieces with various characters, and the text "WIKIPEDIA The Free Encyclopedia". To the right of the logo are navigation buttons: "main page", "discussion", "view source", and "history". In the top right corner, there is a "Log in / create account" link. Below the logo, there is a "navigation" section with links to "Main Page", "Contents", "Featured content", "Current events", and "Random article". Below that is an "interaction" section with links to "About Wikipedia", "Community portal", "Recent changes", "Contact Wikipedia", "Donate to Wikipedia", and "Help". At the bottom left, there is a "search" section with a search box and "Go" and "Search" buttons. The main content area features a "Welcome to Wikipedia" message, stating it is a free encyclopedia with 2,359,125 articles in English. To the right of the welcome message is a grid of category links: Arts, Biography, Geography, History, Mathematics, Science, Society, Technology, and All portals. Below the welcome message are links for "Overview", "Editing", "Questions", and "Help". To the right of these links are "Contents", "Categories", "Featured content", and "A-Z index". The "Today's featured article" section highlights Huldrych Zwingli, a leader of the Reformation in Switzerland. The "In the news" section lists recent events: a presidential election in Zimbabwe, a train collision in China, and Maoists winning seats in the Nepalese Constituent Assembly election.

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the free [encyclopedia](#) that anyone can edit.
2,359,125 articles in [English](#)

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- [Geography](#)
- [History](#)
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Today's featured article



Huldrych Zwingli was a leader of the [Reformation in Switzerland](#). In his first public controversy in 1522, he attacked the [custom of fasting](#) during [Lent](#). In his publications, he noted corruption in the ecclesiastical hierarchy, promoted clerical marriage, and attacked the use of [images](#) in places of worship. In 1525, Zwingli introduced a new [communion liturgy](#) to replace the [Mass](#). Zwingli also clashed with the radical wing of the Reformation, the [Anabaptists](#), which resulted in their persecution. The Reformation spread to other parts of the [Swiss Confederation](#), but several [cantons](#) resisted, preferring to remain [Catholic](#). Zwingli formed an alliance of Reformed cantons which divided the Confederation along religious lines. In 1529, a war between the two sides was averted at the last moment. Meanwhile

In the news

- In [Zimbabwe](#), results of the [presidential election](#) held in March 2008 are announced with no outright winner, necessitating a [run-off](#) between [Morgan Tsvangirai](#) and incumbent [Robert Mugabe](#).
- A [train collision](#) near [Zibo](#), [China](#), kills at least 72 people.
- [Maoists](#) win a [plurality](#) of seats in the [Nepalese Constituent Assembly election](#), the first [election in Nepal](#) in nine years.
- Researchers discover what is believed to be the first



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Learn more about the worldwide movement to make teaching and learning materials free and accessible for use and re-use by everyone.

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Linking You to Teaching and Learning Resources

Welcome to OER Commons, a global teaching and learning network of free-to-use resources – from K-12 lesson plans to college courseware – for you to use, tag, rate, and review.

Browse [Categories](#) or [Collections](#).

Looking for open resources on Climate Change?

[Climate Change](#) is a 5-minute video with lesson plan about the difference between weather and climate, for grades 6-12.

[Climate Change Course](#) is a college-level unit exploring the science that underpins climate change and global warming.

Open Educational Resources offer new ways to engage with learning content.

OER Top Ten

Check out these OER [Course Related Materials](#) highlights.



Featured

Most Popular

Highest Rated

New

[Advanced Managerial Communication, Spring 2004](#)

Subject: Business
Collection: MIT OpenCourseWare
Grade Level: Post-secondary

Rating: ★★★★★
Type: Course Related Materials

Abstract: Builds on managerial communication skills developed in 15.280. Introduces interactive oral and interpersonal communication skills important to managers, including presenting to a hostile audience, running meetings, listening, and contributing to group decision-making. Includes team-run classes on chosen ... [More >](#)

Top 30 Tags

Tags are keywords that users add

Art **Biology** Chemistry
Civil Society
Climate Change Economics
Education eLearning
Engineering Evolution Flu
French Globalization
High School Internet Media
Methods Music
Open Educational Resources
Oral History
Phylogenetics Teaching Resource
Political Science Psychology
Race Research Science
Social History Teacher Skills
Urban Writing

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Open for Whom?

In what **LANGUAGE**?

With what **infrastructure**?

Where are the **TEACHERS**?

Do they have the **skills** needed?

Virtual University Small States Commonwealth

<http://www.wikieducator.org/VUSSC>



- The VUSSC is a consortium of institutions that aims to address education needs in small states of the Commonwealth



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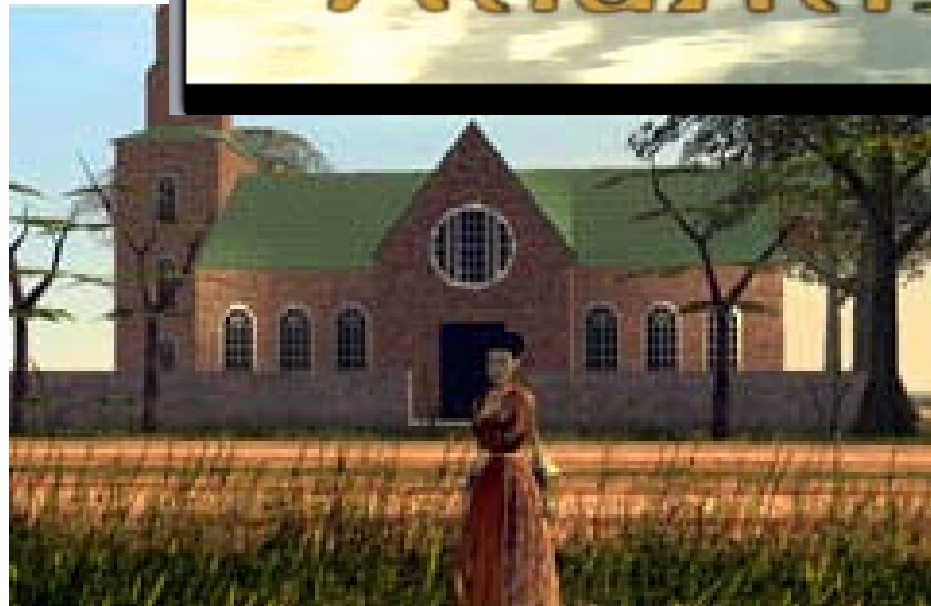
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Βίντεο - παιχνίδια

- Ενδιαφέρον
- Πολυμέσα
- Ενεργός συμμετοχή
- Ανταγωνισμός
- Συνεργασία
- Αλληλεπίδραση
- Ανατροφοδότηση
- Επίπεδο δυσκολίας
- Αναπροσαρμογή
- Αξιολόγηση



FOOD FORCE

www.food-force.com

The image shows a screenshot of the World Food Programme (WFP) website. The header features the WFP logo on the left, the text "World Food Programme" in a large font, and the tagline "The world's frontline organisation fighting hunger" below it. On the right side of the header, there are links for "WFP News RSS", "Other languages", and a "Site Search" box with a "Go" button. A main banner image shows several children sitting at a table with red plastic cups, with the text "Help us Fill the Cup" and "Click to Donate" overlaid. Below the banner, there are three main content blocks: 1) A "Latest news" sidebar with a list of menu items and a small image of a child with a red cup. 2) A news article titled "US calls for US\$770 million" with a sub-image of hands holding grain and a list of links. 3) A "Darfur truck driver killed" news item with a sub-image of a truck. On the right side, there are two more blocks: "Donate online" with a "fill the cup" logo and a child's image, and "Interactive hunger map" with a sub-link.

WFP
World Food Programme
The world's frontline organisation fighting hunger

WFP News RSS
Other languages
Site Search Go
Go to

Latest news
Who we are
What we do
Where we work
Food assistance
How to help
Appeals
Publications
Contact us
Executive Board

Click to fill the cup

Help us Fill the Cup
Click to Donate

US calls for US\$770 million
WFP Executive Director Josette Sheeran has thanked US President George Bush after he called for US\$770 million in food assistance for those hit by high food prices.
▶ UN sets up food crisis task force
▶ Video
▶ Learn more
▶ WFP nutritionist interview

Darfur truck driver killed
WFP says a truck driver transporting vital food relief to Darfur has been killed. It is the second such killing in two months.
▶ News ▶ WFP in Sudan

fill the cup
wfp.org
Donate online

Interactive hunger map
Who are the hungry? Find out with our interactive hunger map.

Προκλήσεις

- Κατάρτιση
- Ιδεολογία/φιλοσοφία του σχολείου
- Χρόνος
- Γλώσσα
- Αναλυτικό Πρόγραμμα
- Εξεταστικό σύστημα

Οι μαθητές μαθαίνουν καλύτερα όταν ...

- Συμμετέχουν ενεργά στη μάθηση
- Συνεργάζονται για λύση προβλημάτων
- Οικοδομούν και παρουσιάζουν γνώση με πολλαπλούς τρόπους
- Συμμετέχουν σε αυθεντικές δραστηριότητες
- Τους παρέχεται συχνή ανατροφοδότηση
- Αναστοχάζονται πάνω στις εμπειρίες, τις γνώσεις και τη μάθηση τους
- Έχουν πρόσβαση σε εργαλεία και πληροφορίες για οικοδόμηση της γνώσης

Πρόκληση: Ξεχνούμε ότι ...

- Οι εκπαιδευτικοί μαθαίνουν καλύτερα με τον ίδιο τρόπο ...



Προβλήματα Προγραμμάτων Επιμόρφωσης

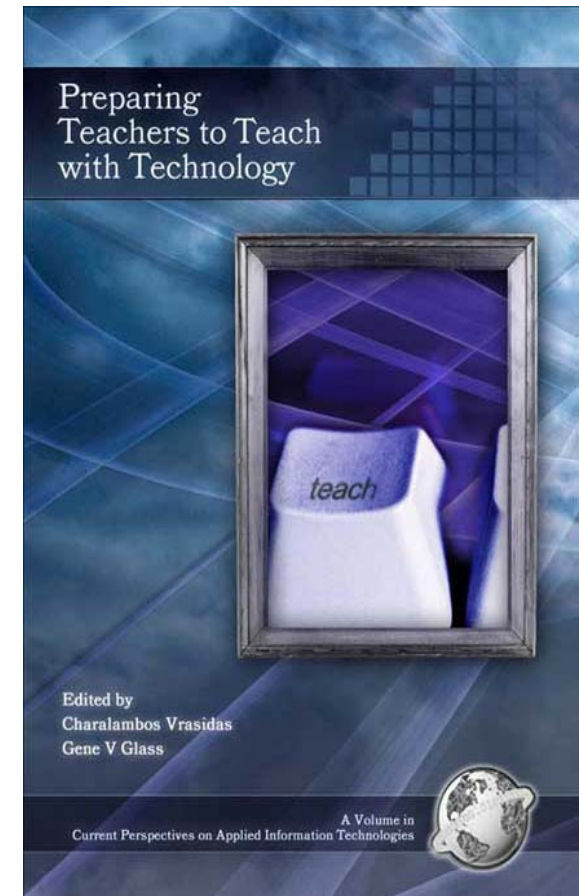
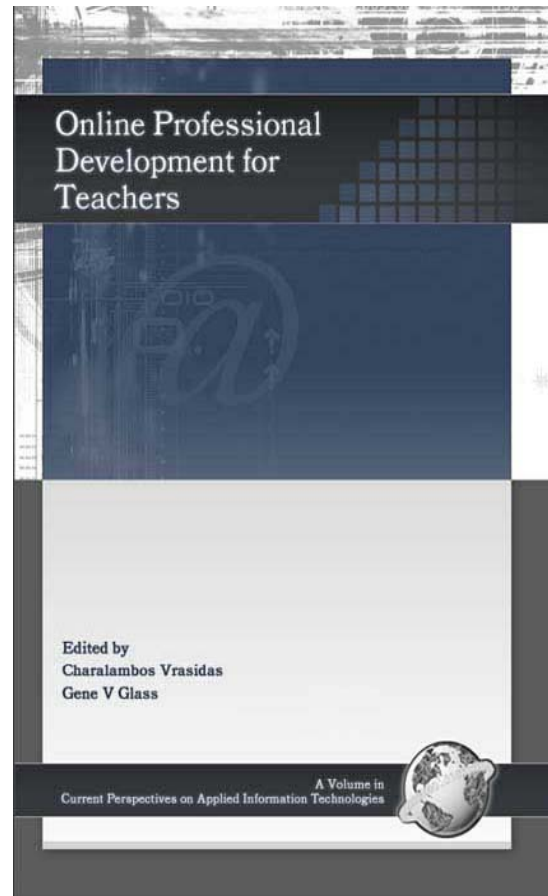
- Θεωρητικά χωρίς πρακτική εφαρμογή
- Προσφέρονται από εκπαιδευτές χωρίς τα απαραίτητα προσόντα
- Δεν υπάρχει συνέχεια
- Μικρής διάρκειας
- Έλλειψη σύνδεσης με τις πραγματικότητες του σχολείου
- Δεν δίνονται κίνητρα στους εκπαιδευτικούς

Επιμόρφωση Εκπαιδευτικών & Εκπαιδευτών

- Συνολική προσέγγιση
- Ένταξη στα πλαίσια του χώρου εργασίας
- Ενεργή συμμετοχή
- Συνεργατική
- Συνεχιζόμενη – Διαρκής
- Παροχή κινήτρων
- Ευκαιρίες εφαρμογής και αναστοχασμού
- Αντατροφοδότηση



Current Perspectives on Applied Information Technologies



ICT for Education, Development, and Social Justice

ICT for Education, Development & Social Justice



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empower



innovate

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