

# SMART LEARNING FOR THE MOBILE GENERATION & MOOCS

**Dr. Minjuan Wang**

Professor of Learning

Design & Technology

San Diego State University (USA)

**Oriental Scholar, Shanghai, China**

[mwang@mail.sdsu.edu](mailto:mwang@mail.sdsu.edu)



**"The Best Career You Never Heard Of"**  
Educational Technology: Learn about EDTEC Careers • Internationally-Recognized Programs • On-Campus & Online  
Master's Degree • Certificate Programs • Saturday Seminars [Click to Download PDF Brochure](#)



<http://go.sdsu.edu/education/edtec/index.asp>  
**X**



SAN DIEGO BLOCK  
2010-2011



# turning education into performance

## COLLEGE OF EDUCATION DEPARTMENT OF LEARNING DESIGN & TECHNOLOGY

- COE Home
- LDT (EDTEC) Home
- Programs of Study
- Admissions
- Projects & Initiatives
- Faculty
- Student Resources
- News & Events
- Contact Us



**Boot up Camp 2013**  
Third Annual Boot up Camp for New Students



### Announcements

**Grad Fest 2014**  
March 25-27 9:30 am - 7:00 pm

**COE Commencement 2014**  
May 18 2014 Viejas Arena 9 am

**MA Program Info Flyer**  
Deadline for campus program is March 1.

**LDT Holiday Party**  
Dec. 6 at Marcie Bober-Michel's house

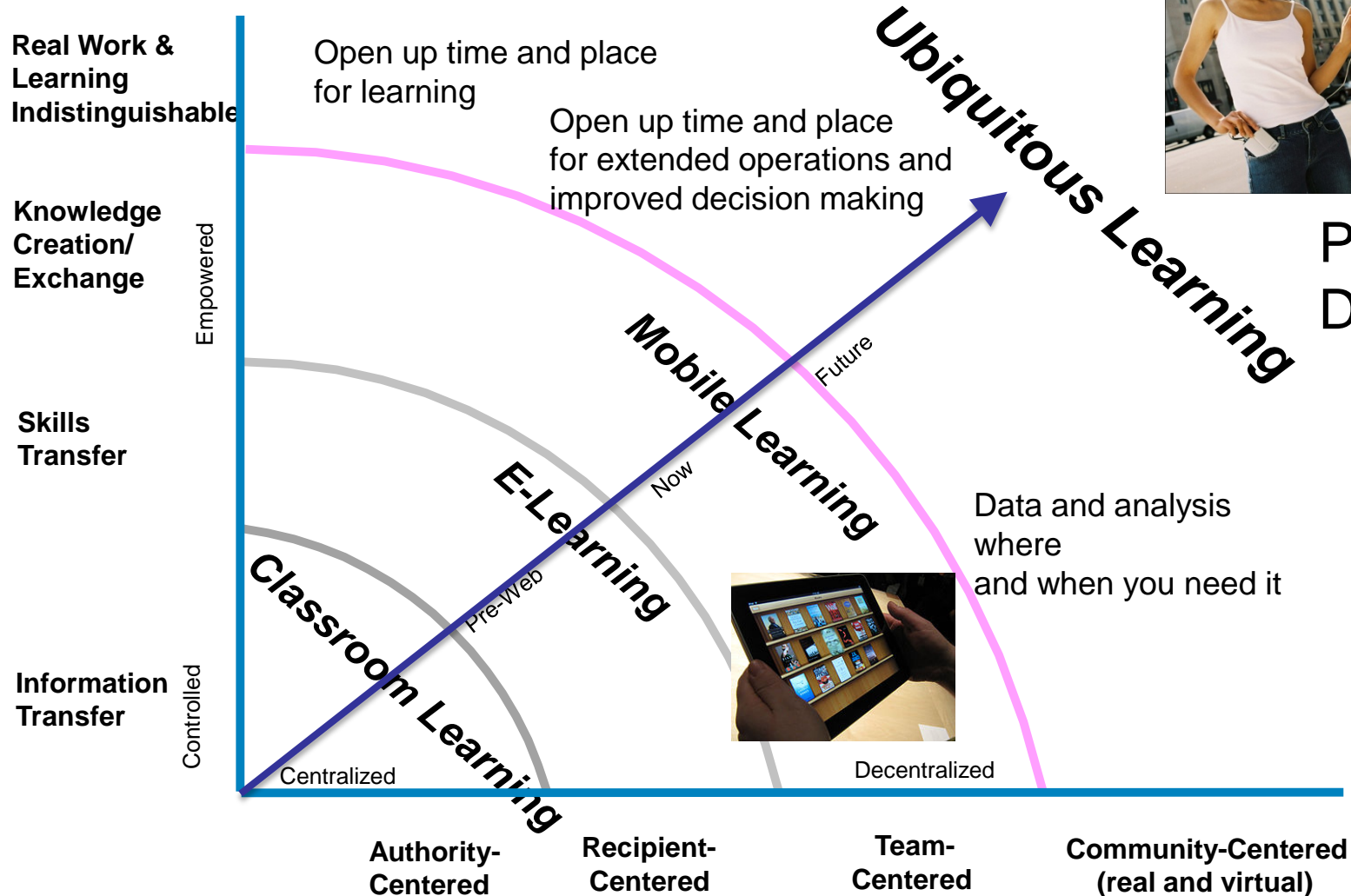
**EDTEC Back to School Celebration**  
August 24 at Jim Marshall's House

[View older entries](#)

# The Evolution of Learning



Personal  
Devices



*M-Learning in Various  
Settings:  
theory and practice*



# *Anytime , Anywhere , Anyone ?*

2001APPLE's iPod, 2007 iPhone, 2010, iPad



## OLD DEFINITION

Focused mainly on learning  
with mobile devices;  
techno-centric





## NEW DEFINITION

Focuses on learner mobility,  
learner- and community-  
centered



# Learner Mobility



# Benefits of mLearn

- Phones with connection (*Accessibility*)
- Personalization (*Pace*)
- Capture your inspiration/ideas
- Ease of it (*Immediacy*)
- Facilitating interactions, teamwork, social networking (*P2P mLearning*)
- Creativity (*more pictures, multimedia*)
- Speeding things up (*GPS, access to info., shopping*)

*Learn to be a smart  
Mobile Learner  
(M-Learner)*

**Service apps:** Alarm clock, GPS, Kayak, Ctrip, Calendar, Alarm.com

**Social networking tools:** Facebook, Twitter, Linked-in, Whatsup, WeChat, Instagram

**Writing:** Blog, Microblog (Weibo), WeChat, Evernote

**News:** WSJ, CNN

**Shopping:** Amazon, eBay, RedLaser

**Learning:** Blackboard, Moodle, MOOC, iTunes U

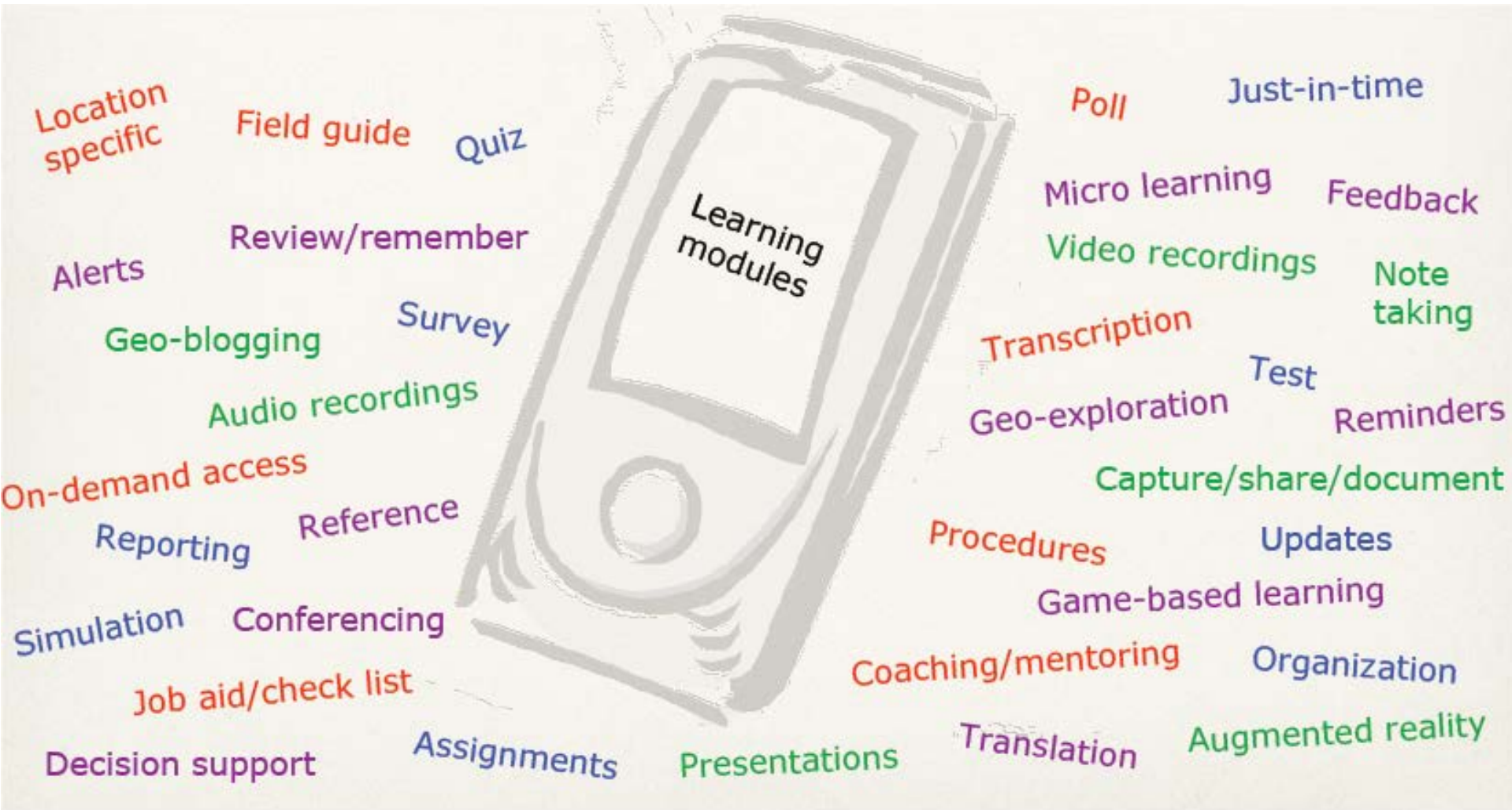
**Banking and Finance:** Citimobile, Chase

**Reading:** Kindle, iBooks, PDF reader

**Misc:** Flashlight, Ultrasonic (bugs), Talkatone (free phone), Stars, MicroTV

**MOBILE APPS YOU USE OFTEN**

# What M-Learning can do for you ?

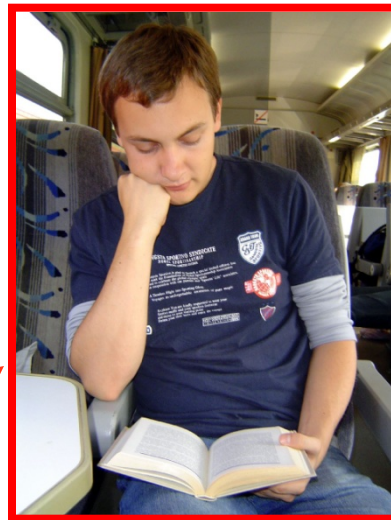


# Learn to be a smart M-Learner

Personalised  
information feeds and  
mobile tools



Personalised  
resource  
archives



Learner-selected  
peer network



Learner-selected  
mentors

# Informal Learning in our Formal life

## Formal learning

**formal education**  
university programmes

structured instruction/info

**formal training**  
courses/ programmes

structured instruction

## Informal learning

**informal training**  
job-embedded learning

semi-structured instr/information

**informal learning**  
information, knowledge

unstructured information

20%

80% of workplace learning

100% spend

Average 4 training days per year





# From Formal to Informal Learning



- **Used in higher-ed**
  - Large hybrid classes at Shanghai Jiaotong U.
- **Support outdoor activities**
  - K-12 schools around the world
  - Project-mGage (mobile engagement): SDSU
- **Used in public education**
  - Museums & exhibitions; **iPad Classrooms**
  - **The Shanghai Expo (2010)**
- **Support individualized learning or training**
  - Qualcomm's mobile training (BYOD)
  - Huawei University



# Mobile Learning(GDMA 1X)

## Dialogue 4

打包

A: I'm **full**(not a fool☺). / *stuffed*

B: But there's still a lot (of food) **left** over.

A: Don't worry. I'll ask the waitress for a **doggie** bag.



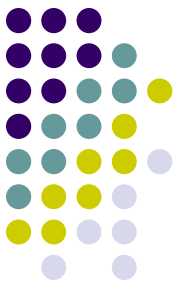
Univ.

Shanghai



Real Time Classroom

# Open U of Shanghai: mLearn on iPad



随身学  
iLearn BETA

学习向导  
参考资料  
习题测验



课程章节

- 第1讲 走近经典(14)肖邦  
走进经典——音乐故事
- 第2讲 走近经典(15)贝多芬  
走进经典——音乐故事
- 第3讲 走近经典(16)聂耳  
走进经典——音乐故事

轻触以新建书签

轻触以新建书签

轻触以新建书签

blog.sina.com.cn/bellelune

# M-Learning Applications

1. Course schedules
2. Just-in-time course information
3. Social events/announcements
4. On-line quizzes
5. Learning games
6. Learning supporting content
7. e-Books
8. Real-time collaboration
9. Knowledgebase/Case Study



**SMS-Based  
Learning**

**Simple Quiz  
Games**

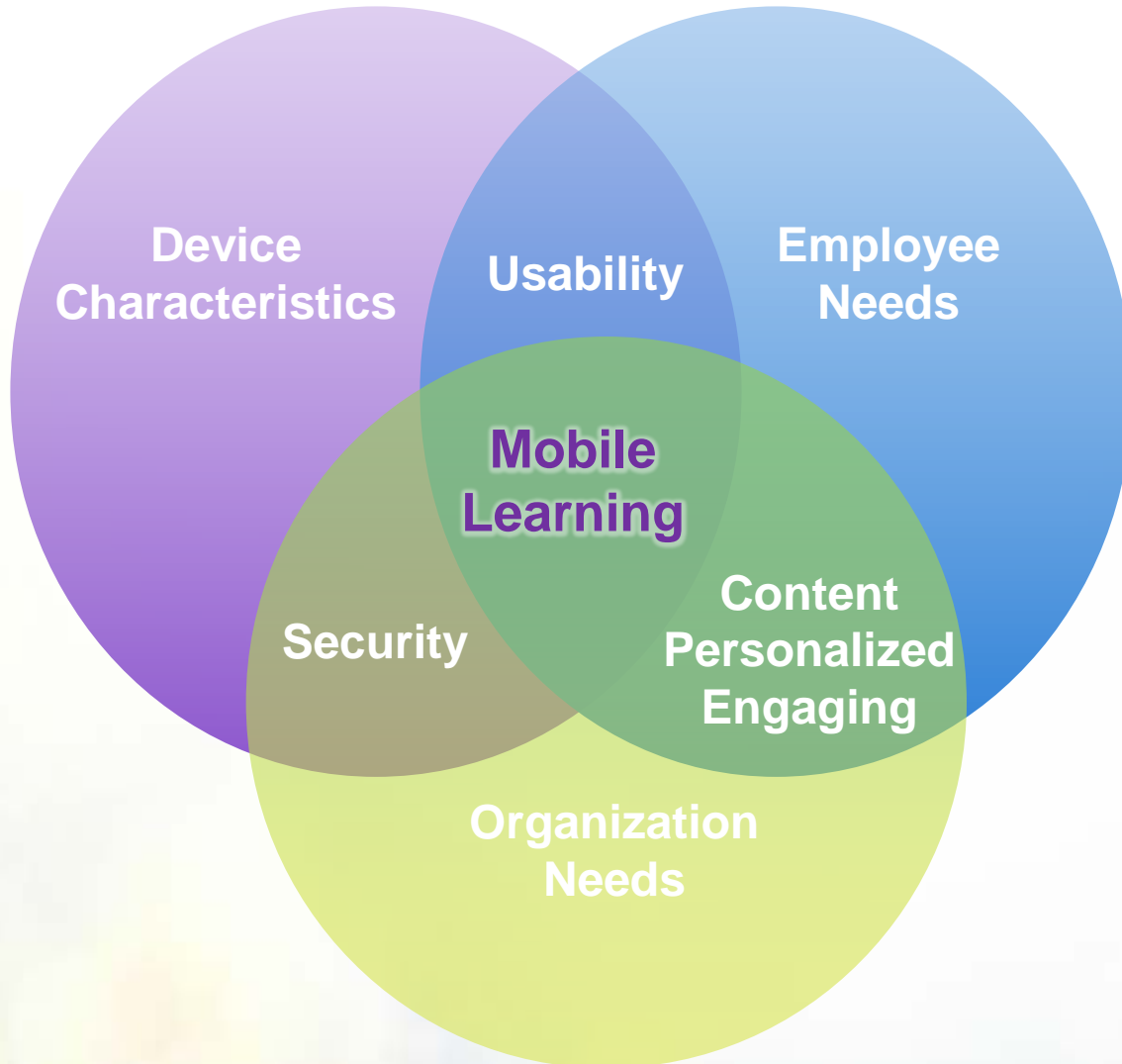
**MobileLMS**  
(UpsideLMS on the go)

**mBook**  
(& other learning Apps)



# *Exemplary Cases of M-Learning*

# BYOD Mobile Learning Model



*Successful m-learning is built around specific needs, or contexts*

*When designing a solution, need to balance the inter-relationship between device, employee & employer*

Enhances the User Experience

LEARNS

SENSES

DISCOVERS

FILTERS

KNOWS

INTERACTS







Use a smart phone's QR code reader on this image and you will be taken to one of Minjuan's mobile websites. This one was made for a university-level EFL class. The site has not been updated for the current semester, but it will give you an idea of what is possible with the **iWebkit** template.

Alternatively, you can visit this link at <http://edweb.sdsu.edu/courses/edtec596/ML/mobiletemplateESL/>


## mLearn 596 Wang


Main Contact


Welcome to mLearn 596!


**Course Syllabus**


Read All Carefully

 **Instructor** >

 **Resources** >

 **Course Description** >

 **Class Schedule** >

 **Exams, etc.** >

**Attendance Policy** >

**A+** **Grading Policy** >

01491

Free website hit counter

Powered by iWebKit

Icons from Iconspedia

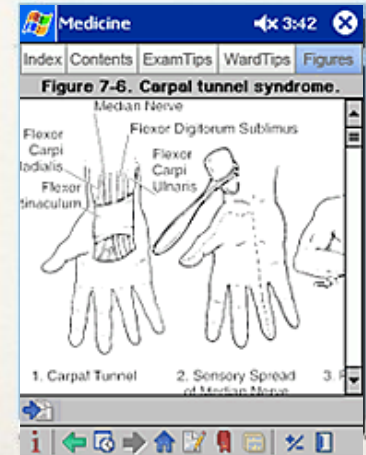
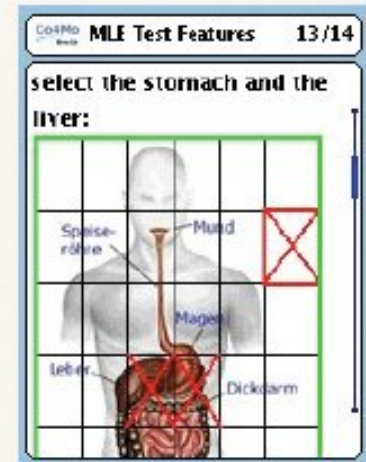
# Let's M-Learning Now! M-LMS

The screenshot shows a web browser window titled "Blackboard Mobile Overview - Windows Internet Explorer". The address bar contains the URL <http://blackboard.com/Mobile/Overview.aspx>. The page features the Blackboard logo and a navigation menu with categories like "Teaching & Learning", "Commerce & Security", "Alert & Notification", "Mobile", "Solutions by Market", "Support", and "Communities". Below the navigation is a main heading "How can mobile move you farther?" followed by a paragraph: "Does your school have a mobile strategy to enrich teaching and learning? How about a plan to enhance life outside the classroom? With Blackboard Mobile, you can implement easy mobile solutions that have the power to take education farther than you ever imagined." To the right of this text is an image of an HTC smartphone displaying the Blackboard mobile interface for a course titled "OCEAN101: Introductory Biology". The phone screen shows options for "Course Info", "Course Map", "Announcements", "Syllabus", "Course Information", and "Discussions". Below the main text, there are three promotional boxes: "Go mobile with your campus experience" with an image of an iPhone and the text "Blackboard Mobile Central™"; "Take interactive teaching and learning mobile" with an image of a BlackBerry phone and the text "Blackboard Mobile Learn™"; and "Are you a student?" with a photo of a student and the text "Click here to learn about Blackboard Mobile". At the bottom right, there is a "Mobile Learn On 4G with Sprint" logo.

<http://blackboard.com/Mobile/Overview.aspx>

# M-Learning for Medical Professionals

- ✦ Open source
- ✦ Mobile browser
- ✦ Or special mobile phone application
- ✦ <http://mle.sourceforge.net>



- 最新的**智能型手机听诊程序**，只要把手机的麦克风，贴在靠近心脏的6个特殊位置，就能清楚听到心跳声，还能录音，帮方便医生作远程诊断，刚上市，吸引全球超过300万个医生下载。

# Selected Publications

- *IEEE Transactions on Education*
- *British Journal of Educational Technology* (BJET)
- *Educational Technology Research and Development* (ETRD)
- *Educational technology and society*
- *Open Education Research*
- *Computers and Education*

See: <http://tinyurl.com/minjuan>

Copies available by email.