

# HKIER Newsletter

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香港中文大學



香港教育研究

Hong Kong Institute of Educational Research  
The Chinese University of Hong Kong

## Research Notes and Innovations

### 網上學習 (E-learning)

互聯網發展迅速，網絡連線方法日新月異，而連線速度亦愈來愈快，大規模開放式網上課程 (massive open online courses, MOOC) 漸成學習一途。本期通訊請來香港中文大學香港教育研究所資訊科技教育促進中心莊紹勇教授，談談該中心發展的MOOC，在「網絡探究」(WebQuest)上如何幫助教師和學生。

#### 教師專業發展MOOC

編：「網絡探究」是甚麼？

莊：「網絡探究」以學習者為中心，採專題研習 (project-based learning) 取向，主要幫助K-12學生在互聯網上進行協作探究學習。「網絡探究」已逐漸成為教育的要素。

編：教師需要學習如何實施「網絡探究」嗎？

莊：「網絡探究」教學與傳統教學無論在教學知識與教學技巧上都不同，為將「網絡探究」有效融入學校教育當中，教師有必要接受這方面的訓練。

編：資訊科技教育促進中心有提供這方面的訓練嗎？

莊：有。資訊科技教育促進中心有感於在職教師難以抽空參加傳統的面授訓練，認為MOOC是一可行解決方法。中心獲教育局撥款，發展出首個為在職小學和中學教師實施「網絡探究」的教師專業發展MOOC。

編：該教師專業發展課程有甚麼內容？

莊：該課程內容包括錄像為本的教學單元、形成性評估測驗 (附於每單元末)、教師學習社群虛擬論壇 (有網上導師協助)，以及總結性評估任務。學員須按其任教級別 (小學或中學) 和科目 (四個主要學習範疇：英文、中文、數學、人文學科)，選擇個別學習路徑，修習不同學習單元。

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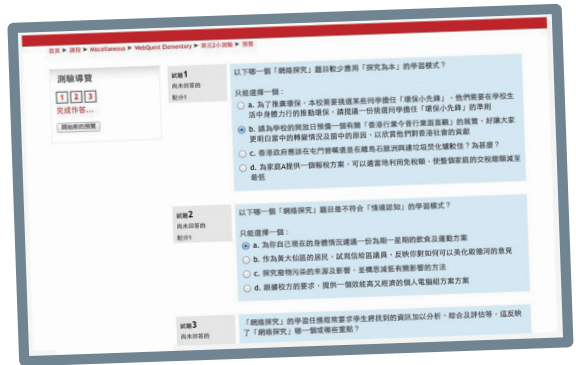
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**編：完成課程後教師有甚麼得着？**

莊：完成課程後，教師會更清楚「網絡探究」是甚麼，了解怎樣把它融入教學。本課程亦建構了科目為本的教師學習社群，參加者可分享良好的教學實踐經驗。學員在網上通過所有形成性評估測驗，完成總結性評估任務，會獲發電子證書，並獲教育局認許為6小時持續專業發展。

**戶外探究學習新方向：EduVenture**

**編：EduVenture是甚麼？**

莊：EduVenture由本人與資訊科技教育促進中心研究團隊研發，是一套利用GPS技術支援置位感知戶外探究的學習系統（GPS-supported

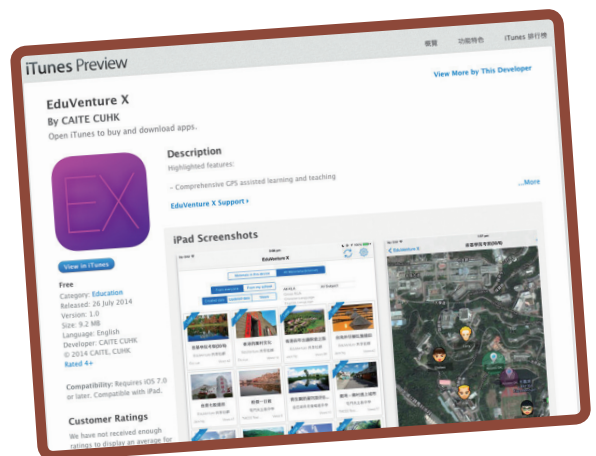
context-aware outdoor exploratory learning system），可協助推行香港教育局第四個資訊科技教育策略中的移動學習目標。

**編：EduVenture有甚麼特點？它如何幫助教師和學生？**

莊：EduVenture採用雲端方式，使教師能輕易地為學生設計戶外探究學習範圍和置位感知任務，內容以多媒體形式呈現。它以GPS導引學生在戶外進行以學習者為中心的置位感知探究，自動記錄學生的戶外學習過程，供教師在雲端即時參閱；學生亦可從雲端擷取在戶外搜集到的資料和數據，與同儕一起作進一步討論和分析。

**編：現時採用EduVenture的學校有多少？**

莊：現時，已有超過50所學校在中學通識科和小學常識科應用EduVenture，協助學生進行戶外探究學習活動。



## Teacher Professional Development in IT in Education

Funded by the Education Bureau (EDB), the Centre for the Advancement of Information Technology in Education has completed a series of professional development courses to equip school teachers with both pedagogical and technical knowledge in integrating IT into learning and teaching in the school year of 2013–2014. The courses are as follows:

1. Effective Use of TAO Platform to Execute E-Assessment in Secondary Education
2. Integration of Free e-Learning Apps and Mobile Devices to Enhance the Effectiveness of Learning and Teaching of Measures, Shape and Space Dimension in Secondary Schools Mathematics
3. Use of Mobile Devices to Enhance the Quality of Learning and Teaching in Primary Schools
4. Effective Use of the free MIT App Inventor to Enhance the Quality of Learning and Teaching in Computer Subjects

A total of 488 in-service teachers participated in these courses. For further details, please refer to [http://caite.fed.cuhk.edu.hk/professional\\_dev.php](http://caite.fed.cuhk.edu.hk/professional_dev.php)

## New Publications and International Conference Presentations

- Jong, M. S. Y. (2014). Elementary students' view of collaborative knowledge building in LearningVillages. *Interaction Design and Architecture(s)*, 21, 37–56.
- Jong, M. S. Y., & Luk, E. T. H. (2014). Adopting EagleEye in outdoor exploratory learning from the teacher perspective. In D. G. Sampson, J. M. Spector, N. S. Chen, R. Huang, & Kinshuk (Eds.), *Proceedings of IEEE 14th International Conference on Advanced Learning Technology (ICALT 2014)* (pp. 617–621). Los Alamitos, CA: IEEE Computer Society.
- Jong, M. S. Y., & Shang, J. J. (2014, September). *Replacing conventional classroom teaching by constructivist online game-based learning: Will it work in formal school education?* Paper presented at British Educational Research Association Annual Conference 2014 (BERA 2014), London, United Kingdom.
- Li, S. L., Jong, M. S. Y., Luk, E. T. H., & Zhang, E. X. Q. (2014). Teaching and learning with tablet-based e-books: Evaluating students' perceptions and performance. In W. L. Chen, X. Q. Gu, & Y. T. Wu (Eds.), *GCCCE 2014, The Global Chinese Conference of Computers in Education: Conference proceedings* (pp. 495–498). Shanghai, China: Global Chinese Society for Computers in Education.
- 張學琪、莊紹勇、蔣宇、李思露（2014）。〈初探移動學習活動中教師的重要性——基於移動學習系統EagleEye的個案研究〉。載陳文莉、顧小清、吳穎滄（編），《全球華人計算機教育應用大會GCCCE 2014：大會論文集》（頁216–219）。上海，中國：全球華人計算機教育應用學會。
- 張學琪、蔣宇、莊紹勇（2014）。〈框架式電子白板的教師關注差異研究——基於香港學校的分析〉。《現代教育技術》，第24卷第3期，頁33–41。



The 14th IEEE International Conference on Advanced Learning Technology (ICALT 2014) at Athens, Greece