研究心得分享:
A study of learning performance of e-learning materials design with knowledge maps

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Journal Articles (2006-2009)

3. 蕭瑞祥, 謝明釗, 「運用知識地圖於數位學習教材設計之研究」, 資訊管理學報,第16卷,第1期, 2009年1月, pp. 163-180. (TSSCI)
5. 蕭瑞祥、許容豪, 「圖解教學運用於資訊安全認知訓練之研究」, 資訊管理展望,第十卷,第一期, 2007年6月, pp. 69-87.
6. 蕭瑞祥, 謝明釗, 「資訊安全認知評量表之研究」, 資訊管理展望,第九卷,第一期, 2007年6月, pp. 71-93.
7. 蕭瑞祥, 謝明釗, 江鴻富, 「我國資訊教育資源落差之研究-以全國高中職、國中小為基礎」, 資訊管理學報,第14卷,第1期, 2007年4月, pp. 91-122. (TSSCI)
10. 蕭瑞祥, 「資訊安全認知訓練之規劃與設計」, 電腦稽核,第14期, 2006年4月, pp. 70-85.
From “Information Security Awareness” to “e-Learning Materials Design”
從“資訊安全認知”到”數位學習教材設計”
Elicitation of Research Topics

- National Information Security Project
- Information Security Awareness
- Knowledge Maps
- ING Information Security Project
- Microsoft e-learning Materials Project

Materials and Methods for Information Security Awareness

- information richness
- situational awareness
- knowledge maps
知識地圖對資訊安全認知學習成效影響之探討

實驗工具(對照組)

• 廢棄郵件
• 僞裝與假冒
• 隱藏賽馬問題
  • 入侵者
  • 軟體程式碼
  • 蠕蟲與病毒
• 建立郵件規則

E-MAIL常見之弱點與威脅
實驗工具（實驗組）
A study of learning performance of e-learning materials design with knowledge maps

Research model
Hypotheses

H1: Knowledge map-based e-learning materials design is more effective than browse-based one on learning performance.
   - H1a: Knowledge map-based e-learning materials design is more effective than browse-based one on learning score.
   - H1b: Knowledge map-based e-learning materials design is more effective than browse-based one on learning satisfaction.

H2: Knowledge map-based e-learning materials design is more effective than browse-based one on computer self-efficacy.

H3: Computer self-efficacy has a significant positive effect on learning performance.
   - H3a: Computer self-efficacy has a significant positive effect on learning score.
   - H3b: Computer self-efficacy has a significant positive effect on learning satisfaction.

ADO.NET browse-based e-learning materials
Conclusion

• Research topics elicited from projects.
• Extended to a integrated framework.
• Referred to other research fields.
• Be skillful at research methodologies.
Thank You For Your Attention!

Q & A