



## Redefining Technology Role in Education

PDF (Size: 64KB) PP. 130-135 DOI: 10.4236/ce.2011.22018

### Author(s)

Ali S. Al Musawi

### ABSTRACT

The paper is a conceptual attempt to explore the new roles of technology in education which has increasingly become more than a sole medium, as was its description in the past. Basically, the key idea is that technology, with the powers of ICT, in education has now three main roles, namely: a medium/resource, a management, and a delivery. These new roles, when combined, could set the stage for restructuring the education institutions in an innovative way that leaves the current education system in history.

### KEYWORDS

Educational Technology, Roles, Education, E-Learning

### Cite this paper

Musawi, A. (2011). Redefining Technology Role in Education. *Creative Education*, 2, 130-135. doi: 10.4236/ce.2011.22018.

### References

- [1] Association for Educational Communications and Technology (2004). The meanings of educational technology, definition and terminology committee. Document #MM4.0 (1 June 2004). [http://www.google.com/url?q=http://www.indiana.edu/~mol-page/Meanings%2520of%2520ET\\_4.0.pdf&sa=U&ei=iw1eTc2vJ4SvrAf6-tCKDg&ved=0CBUQFjACOAo&usg=AFQjCNHq3W12nx5I3qJwnb5tug79ocFz4w](http://www.google.com/url?q=http://www.indiana.edu/~mol-page/Meanings%2520of%2520ET_4.0.pdf&sa=U&ei=iw1eTc2vJ4SvrAf6-tCKDg&ved=0CBUQFjACOAo&usg=AFQjCNHq3W12nx5I3qJwnb5tug79ocFz4w)
- [2] Alison, H., & Alison, G. (2010). Shifting paradigms: Teaching, learning and web 2.0. *Reference Services Review*, 38, 621-633. doi: 10.1108/00907321011090764
- [3] Garlikov, R. (n. d.). The Socratic method: Teaching by asking instead of by telling. Retrieved 23 May 2011. [http://www.garlikov.com/Soc\\_Meth.html](http://www.garlikov.com/Soc_Meth.html)
- [4] Garrido, S. (2002). Webstorming: Brainstorming in the web. In M. Driscoll and T. Reeves (Eds.), *Proceedings of world conference on e-learning in corporate, government, healthcare, and higher education 2002* (pp. 2601-2602). Norfolk, VA: Association for the Advancement of Computing in Education.
- [5] Garson, G. David (2000). The Role of Technology in Quality Education. Retrieved 17 February 2011. <http://www.google.com/url?q=http://168.144.129.112/Articles/The%2520Role%2520of%2520Technology%2520in%2520Quality%2520Education.rtf&sa=U&ei=YThdTbaClOfIuAPPrCQy&ved=0CA8QFjAB&usg=AFQjCNGpExLngIPmkuKkBDUUriUKR5xbdA>
- [6] Idrus, R. (2005). From Facilitation to the Transformation of Learning: From Pedagogy to Technogy. In *Proceedings of the 5th International Educational Technology Conference: Distance Education*, 21-23 September 2005, Sakarya, Turkey.
- [7] Kandlbinder, P. (2004). *Reconstructing educational technology: A critical analysis of online teaching and learning in the university*. Unpublished Ph.D. Thesis, School of Policy and Practice, Faculty of Education and Social Work, University of Sydney.
- [8] Kinuthia, W. Laurie, B. D., & Clarke, P. A. J. (2010). Development of pedagogical technology integration content knowledge in preparing mathematics pre-service teachers: the role of instructional case analyses and reflection, *Journal of Technology and Teacher Education*, 18, 645-669.
- [9] Kissane, B. (2003). Three roles for technology: Towards a humanistic renaissance in mathematics education, Murdoch University, Australia. Retrieved 17 February 2011. <http://www.google.com/url?q=http://math.uni-pa.it/~grim/SiKissane.PDF&sa=U&ei=GTtdTcGACIG2vwOw8c3XDA&ved=0CBUQFjAD&usg=AFQjCNHJOM9PnEbmThb1BogHE-K9ozFPg>

- [10]Kramarski, B., & Gutman, M. (2006). How can self-regulated learning be supported in mathematical e-learning environments? *Journal of Computer Assisted Learning*, 22, 24-33. doi:10.1111/j.1365-2729.2006.00157.x
- [11]Landen, Mary (1997). The role of technology in education and training, *Industrial and Commercial Training*, 29, 230– 235. doi: 10.1108/00197859710190751
- [12]Masood, M. (2004). A ten year analysis: Trends in traditional educational technology literature. *The Malaysian Online Journal of Instructional Technology*, 1. <http://pppj.usm.my/mojit/articles/pdf/1204/A%20Ten%20Year%20Analysis.pdf>
- [13]Koehler, M. J., & Mishra, P. (2006). Technological pedagogical content knowledge: A framework for teacher knowledge. *Teacher College Record*, 108, 1017-1054. doi: 10.1111/j.1467-9620.2006.00684.x
- [14]Kumar, S. (2009). Undergraduate perceptions of the usefulness of web 2.0 in higher education: Survey development. In *Proceedings of the 8th European Conference on e-Learning*, Bari: the University of Bari.
- [15]Rempel, P., Montgomerie, T.C., & Szabo, M. (1998). IT roles and competencies: Are we prepared for the 21st century. In *Proceedings of ED-Media/ED-Telecom 98* (pp. 1133-1138). Charlottesville, VA: Association for the Advancement of Computing in Education.
- [16]Richard, B. (2009). The Effect of Web 2.0 on Teaching and Learning, *Teacher Librarian*, 37, 52-53.
- [17]Roblyer, M. D. (2005). Educational technology research that makes a difference: Series introduction. *Contemporary Issues in Technology and Teacher Education*, 5, 192-201.
- [18]Rutz, E., Eckart, R., Wade, J. E., Maltbie, C., Rafter, C., & Elkins, V. (2003). Student performance and acceptance of instructional technology: Comparing technology-enhanced and traditional instruction for a course in statics. *Journal of Engineering Education*, 92, 133-140.
- [19]Siemens, G. (2005). Connectivism: A learning theory for the digital age, *International Journal of Instructional Technology and Distance Learning*, 2. [http://www.itdl.org/Journal/Jan\\_05/article01.htm](http://www.itdl.org/Journal/Jan_05/article01.htm)
- [20]Spence, M., & Haughey, M. (2005). Issues and challenges of instructional technology specialists in alberta colleges. *Canadian Journal of Learning and Technology*, 31, Chesapeake, VA: AACE. <http://www.editlib.org/p/9576>
- [21]Topcu, A., & Ubuz, B. (2008). Effects of the asynchronous webbased course: Pre-service teachers' achievement, metacognition, and attitudes towards the course. *Educational Technology and Society*, 11, 181-197.
- [22]Vijayakumar, S. (2011). Using technology for brainstorming in a writing class: An innovative approach. *Journal of Technology for English Language Teachers*, 1. <https://sites.google.com/site/journaloftechnologyforelt/archive/april2011/usingtechnologyforbrainstorminginawritingclassaninnovativeapproach>

• [Open Special Issues](#)

• [Published Special Issues](#)

• [Special Issues Guideline](#)

[CE Subscription](#)

[Most popular papers in CE](#)

[About CE News](#)

[Frequently Asked Questions](#)

[Recommend to Peers](#)

[Recommend to Library](#)

[Contact Us](#)

Downloads:	183,983
Visits:	403,347

[Sponsors, Associates, and Links >>](#)

---

[The Conference on Information Technology in Education \(CITE 2012\)](#)

[Home](#) | [About SCIRP](#) | [Sitemap](#) | [Contact Us](#)

Copyright © 2006-2013 Scientific Research Publishing Inc. All rights reserved.