

ROBBY ROBSON PUBLICATIONS – JUNE 2016

PAPERS, ARTICLES, AND BOOK CHAPTERS

1. Reitsma, R, Hsieh, P-H, Robson, R., & Zarske M. (2016). Map- or List-based Recommender Agents? Does the Map Metaphor Fulfill its Promise? Submitted to Information Visualization.
2. Robson R (2015). Improving Education, Training and Career Advancement through Competency Portability. I/ITSEC 2015
3. Kelsey, E., Ray, F., Brown, D., Robson, R. (2015). Design of a Domain-Independent, Interactive, Dialogue-based Tutor for Use within the GIFT Framework. GIFT3SYM, Orlando, FL.
4. Reitsma, R, Ray, F & Robson R. (2015). Estimation and Visualization of Digital Library Content Similarities. Submitted to Thirty Sixth International Conference on Information Systems, Fort Worth
5. Robson E. & Robson R. (2014). Automated Content Alignment for Adaptive Personalized Learning. I/ITSEC 2014
6. Rode, C., Robson, R., Purviance, A., Geary, D., Mary, U. (2014). Is Working Memory Training Effective? A Study in a School Setting. PLOS ONE.
7. Ray, F., Brawner, K. & Robson, R. (2014) Using Data Mining to Automate ADDIE. In Proceedings of the 7th International Conference on Educational Data Mining (July, 2014, London, UK).
8. Robson, R., Ray, F., & Cai, Z. (2013). Transforming Content into Dialogue-based Intelligent Tutors. In *The Interservice/Industry Training, Simulation & Education Conference (I/ITSEC)* (Vol. 2013, No. 1). National Training Systems Association.
9. Robson, R. & Barr A. (2013) Lowering the Barrier to Adoption of Intelligent Tutoring Systems through Standardization. In *Design Recommendations for Adaptive Intelligent Tutoring Systems Learner Modeling (Vol. I)*, Sottolare, R., Holden, H., Graesser, A. & Hu, X. eds. Army Research Lab.
10. Robson, R., Hu, X. & Cai, Z. (2013) The Need for a Mathematical Model of Intelligent Tutoring. In *Design Recommendations for Adaptive Intelligent Tutoring Systems Learner Modeling (Vol. I)*, Sottolare, R., Holden, H., Graesser, A. & Hu, X. eds. Army Research Lab.
11. Robson, R. (2012) The Changing Nature of eLearning Content. Chapter in *Reshaping Learning*, R. Huang, Kinshuk & J. M. Spector, Eds. Springer Verlag, Berlin-Heidelberg.
12. Robson, R., & Ray, F. (2012). Applying Semantic Analysis to Training, Education, and Immersive Learning. In *The Interservice/Industry Training, Simulation & Education Conference (I/ITSEC)* (Vol. 2012, No. 1). National Training Systems Association.
13. Mesenbrink, V., Robson, R., Wagle, S. (2010) Advanced Distributed Learning (ADL) Registry Support. Report prepared for the Advanced Distributed Learning initiative. April, 2010.
14. Robson, R. & Richards, T. (2010). Standards – The Agony and Ecstasy of ADL. In R.A. Wisher and B.H. Khan, (Eds.), *Learning on demand: ADL and the future of e-learning* (pp. 1-20) Washington DC: ADL Initiative
15. Regan, D. & Robson, R. (2008). Aligning Instructional Design and Technical Standards, Interservice / Industry Training, Simulation, and Education Conference (I/ITSEC) 2008
16. Robson, R. & McElroy, P. (2008). Transforming to Next Generation Digital Learning Content. Adobe Systems Incorporated.

17. Robson, R. (2007). Reusability and Reusable Design. Chapter in Second Edition of Trends and Issues in Instructional Design edited by John V. Dempsey and Robert A. Reiser. Merrill / Prentice-Hall, Upper Saddle River, New Jersey
18. Robson, R. (2006). Globalization and the Future of Standardization. Computer Magazine. Vol. 39, # 7, p. 82 – 84. (July 2006). IEEE Computer Society.
19. Cull, P., Flahive, M., Robson, R. (2005). Difference Equations from Rabbits to Chaos. An Undergraduate Text in Mathematics. Springer Verlag
20. Robson, R. (2005) Putting Course Management Systems Behind Us. Chapter in McGee, Jafari, and Carmean, ed., Course Management Systems for Learning: Beyond Accidental Pedagogy. IDEA Group, Hershey, PA. p. 282 – 295.
21. Collier, G., Richards, R. & Robson, R. Content Integration, e-Learning Standards and Middleware, White Paper sponsored by Recombo, Inc.
22. Robson, R. (2004). Information Products, Learning Objects and Context, chapter in McGreal, R. ed., Online Education Using Learning Objects, Routledge Falmer, Oxford & New York.
23. Collier, G., Piccariello, H. & Robson, R. (2004). Digital Rights Management: Tools and Applications for Implementing DRM in a Digital Ecosystem and An Ecosystem Model for the Education
24. Robson, R. (2004). Learning and Information Management in Education — As We May Learn. Macromedia White Paper, Macromedia Inc.
25. Hanson, P. and Robson, R. Evaluating Course Management Technology: A Pilot Case Study. Educause Center for Applied Research. Research Bulletin. Vol. 2004 (24), November 23, 2004
26. Collier, G., Piccariello, H., and Robson, R. Digital Rights Management: Tools and Applications for Implementing DRM in a Digital Ecosystem. Educause Center for Applied Research. Research Bulletin. Vol. 2004 (22), October 26, 2004
27. Collier, G. and Robson, R. (2004). Digital Rights Management for Research and Education. White paper written for the Macquarie E-learning Centre of Excellence, University of Macquarie, Australia.
28. Hanson, P. & Robson, R. (2003). Course Management Technology Evaluation Framework. Educause Center for Applied Research. Research Bulletin. Vol. 2003 (14), July 8, 2003.
29. Robson, R., Norris, D., Lefrere, P., Collier, G., Mason, J. (2003) Share and Share Alike: The E-Knowledge Transformation Comes to Campus. Educause Review, September/October 2003. Online only. <http://www.educause.edu/ir/library/pdf/erm0351.pdf>.
30. Robson R., Norris D., Lefrere, P., Collier G., Mason, J. (2003) A Revolution in Knowledge Sharing. Educause Review, Sept/Oct 2003, 38 (5), 14 – 26. Educause, Washington, DC.
31. Merriman, J., & Robson, R. (2003). The Open Knowledge Initiative. World Conference on Educational Multimedia, Hypermedia and Telecommunications 2003 (1), 92-94.
32. Robson, R. (2003). Open Source Opens Doors. Learning & Training Innovations, Nov/Dec 2003. Vol. 4 (6), p. 63.
33. Robson, R. (2003). Leveraging Modeling & Simulation Capabilities. Learning & Training Innovations, July/August 2003, Vol. 4 (5), p. 11.

34. Robson, R. (2003). The Promise of Web Services. Learning & Training Innovations, May/Jun2003, Vol. 4 (4), p 10 - 11.
35. Robson, R. (2003). When Should You Adopt a Standard? Learning & Training Innovations, Apr 2003, Vol. 4 (3), p 14 - 15.
36. Robson, R. (2003). Exploring the Library Community. Learning & Training Innovations, Supplemental Trade Show Edition, Apr 2003. p 16.
37. Robson, R. (2003). E-learning Meets Security Policies. e-learning Magazine, Feb/Mar 2003, Vol. 4 (2), p 14 - 15.
38. Robson, R. (2003). Have We Reached Interoperability Nirvana? e-learning Magazine, Jan 2003, Vol. 4 (1), p 22 - 23.
39. Robson, R. (2002). The Digital Debate. e-learning Magazine, Nov/Dec 2002, Vol. 3 (10), p 10 - 11.
40. Robson, R. (2002). Reusable Learning Objects. e-learning Magazine, Oct 2002, Vol. 3 (9), p 18 - 19.
41. Robson, R. (2002). SCORM Steps Up. e-learning Magazine, Aug/Sep 2002, Vol. 3 (8), p 48 - 50.
42. Robson, R. (2002). Set Your Sights. e-learning Magazine, Jul 2002, Vol. 3 (7), p 18 - 19.
43. Robson, R. (2002). Gaze Into the Crystal Ball. e-learning Magazine, Jun 2002, Vol. 3 (6), p 18 - 19.
44. Robson, R. (2002). Metadata, Schmetadata. e-learning Magazine, May 2002, Vol. 3 (5), p 48 - 49.
45. Robson, R. (2002). Explaining E-learning to a Stranger. e-learning Magazine, Mar 2002, Vol. 3 (3), p 48 - 49.
46. Robson, R. and Collier, G. (2002). eLearning Interoperability Standards. White Paper. Sun Microsystems.
47. Robson R. (2001). Pedagogic Metadata. Interactive Learning Environments, 9 (3), 207 – 218, Swets & Zeitlinger, the Netherlands.
48. Duval, E. & Robson, R. (2001), Guest Editorial on Metadata. Interactive Learning Environments, 9 (3), 201 - 205, Swets & Zeitlinger, the Netherlands
49. Latiolais, P. & Robson, R. (2000) Standards Based Education, FOCUS, 20(5), 12 - 13, Mathematical Association of America, Washington, D.C
50. Robson, R. and Shor, M. (2000) A Student-Centered Feedback Control Model of the Educational Process. Frontiers in Education Conference, 2000. FIE 2000. 30th Annual , Volume: 2 , Page(s): S1A/14 -S1A/19 vol.2
51. Robson, R. (2000). e-REU. in J. Gallian, Ed., Proceedings of the Conference on Summer Undergraduate Mathematics Research Programs. The American Mathematical Society, Providence, RI., 337-340.
52. Robson, R. (2000). Report on Learning Technology Standards. World Conference on Educational Multimedia, Hypermedia and Telecommunications 2000 (1), 971-976.
53. Robson, R. (1999.) WWW-Based Course-Support Systems: The First Generation, International Journal of Educational Telecommunications, Vol. 5, Issue. 4, 1999, pp. 271-282
54. Robson, R. (1999). Object-oriented Instructional Design and Applications to the Web. World Conference on Educational Multimedia, Hypermedia and Telecommunications 1999 (1), 698-702

55. Robson, R. (1999) A Mathematician's Guide to IMS Metadata. American Mathematics Metadata Task Force.
56. Robson, R. (1999). Illustrated Principles for Web-based Course Design. Proc. of the Eleventh Annual International Conference on Technology in Collegiate Mathematics, Addison-Wesley, Reading, MA.
57. Landon, B. and Robson, R. (1999). Technical Issues in Systems for WWW-Based Course Support. International Journal of Educational Telecommunications. 5(4), 437-452.
58. Latiolais, P. & Robson, R. (1999) Standards Based Education and Its Implications for Mathematics Faculty, MAA On-line, Mathematical Association of America, Washington, D.C.
59. Robson, R. and Whitesitt J. (1999). Probability Park: A Database-backed Standards-based Professional Development Environment, Society for Information Technology and Teacher Education International Conference, Vol. 1999, Issue. 1, 1999, pp. 585-590
60. Robson, R., (1998) Taming the Tiger: The Role of Technology in Standards-based Education, Proceedings of the 10th Annual International Conference on Technology in Collegiate Mathematics '97, Addison-Wesley, Reading, MA. 382-387
61. Robson, R. (1998). Probability Park (an online teacher education environment)
62. Bogley, W., Dorbolo, J., Robson R., & Sechrest, J. (1997). Pedagogic Innovations in Web-based Instruction. Proceedings of the Ninth International Conference on Technology in Collegiate Mathematics. Addison- Wesley, Reading, MA. 421-425
63. Roberts R. and Robson, R. (1997). Electronic Transcripts in the Age of Standards, World Conference of the World Wide Web Internet and Intranet, 1997. pp. 729-731
64. Bogley, W. A., Dorbolo, J., Robson, R., and Sechrest, J. (1996). New Pedagogies and Tools for Web-based Calculus, Proc. of the World Conference of the Web Society (1996). 33-39.
65. Bogley, W. A. and Robson, R. (1996). CalculusQuest: Differential Calculus. (Web-based calculus course.)
66. Sechrest, J., Robson, R. et. al. (1995 – 1996). QuestWriter (a course management system used at Oregon State University).
67. Becker E., Robson, R., Schrage, G. (1995) Variationen über ein diophantisches Thema. Elemente der Mathematik. (A German Springer Education Publication)
68. Robson, R. (1991) Separating Points from Convex Sets over Ordered Fields and a Metric for \tilde{R}^n , A.M.S. Transactions 326, 301 - 327
69. Robson, R. (1990). Spectra and Model Theory. Journal of Pure and Applied Algebra 63. pp. 301 - 327
70. Robson, R. (1989). The Oregon State University REU Program: Can Undergraduates do Research? In MAA Notes vol. 18, Models for Undergraduate Research in Mathematics, edited by Lester J. Senechal
71. Robson, R. (1988). Local semianalytic geometry. Manuscripta Mathematica 63. pp. 215 -231
72. Robson, R. (1988). An Artin conjecture for two-term recurrence sequences. Math Reports of the Academy of Sciences, Canada. vol. X(2), pp. 65 -70.
73. Robson, R. (1986). Nash wings and real prime divisors. Mathematische Annalen, 273. pp. 177 -190.

74. Robson, R. (1984). Constructing real prime divisors using Nash arcs. Rocky Mountain Journal of Mathematics, 14. pp. 967 - 969.

75. Robson, R. (1983). Embedding Semialgebraic Spaces. Mathematische Zeitschrift 183, pp. 365 -370

CONTRIBUTIONS TO PUBLISHED SPECIFICATIONS AND STANDARDS

76. ADL Initiative, Shareable Content Object Reference Model, v1.1, 1.2, and 2004

77. IEEE 1484.20.1 – 2007 Data Model for Reusable Competency Definitions (publication anticipated)

78. IEEE 1484.4 – 2006 Trial Use Recommended Practice for Digital Rights Expression Languages (DREs) Suitable for eLearning Technologies (publication anticipated)

79. IEEE 1484.11.1™-2004 Data Model for Content Object Communication.

80. IEEE 1484.11.2™-2003. IEEE Standard for Learning Technology—ECMAScript Application Programming Interface for Content to Runtime Services Communication

81. Advanced Distributed Learning initiative. (October, 2003). Cross-Domain Scripting Issue

82. IEEE 484.12.1™-2002. IEEE Standard for Learning Object Metadata

83. The IMS Global Learning Consortium, (October, 2002). IMS Reusable Definition of Competency or Educational Objective Best Practice and Implementation Guide, V 1.0.

84. Friesen, N., Mourad, M., Robson, R. (2002). Towards a Digital Rights Expression Language Standard for Learning Technology: A Report of the IEEE Learning Technology Standards Committee Digital Rights Expression Language Study Group.

85. Smythe, C., Tansey, F. and Robson, R. (March, 2001). IMS Learner Information Package Best Practice and Implementation Guide, Version 1.0., The IMS Global Learning Consortium

PATENTS

86. Robson, R. & Hald, M. (2012). Automated Metadata Generation of Learning and Knowledge Objects. Patent US8140463. Filed 10/19/2008. Granted 3/20/2012