



# Interdisciplinary Journal of E-Learning and Learning Objects

## Volume 8, 2012

*(formerly the Interdisciplinary Journal of Knowledge and Learning Objects)*

Editor-in-Chief: Janice Whatley, The University of Salford, Salford, Greater Manchester, (UK)

Managing Editor: Eli Cohen, Informing Science Institute, California (USA)

Publisher: Elizabeth Boyd, Informing Science Institute, California (USA)

### Associate Editors:

Nicole A. Buzzetto-More, University of Maryland Eastern Shore, Maryland (USA)

Thomas M Connolly, University of West of Scotland, Paisley (Scotland)

Norman Creaney, University of Ulster, Coleraine (N. Ireland)

Heinz V. Dreher, Curtin University of Technology, Perth (Australia)

Keith Harman, Oklahoma Baptist University, Oklahoma (USA)

William Housel, Northwestern Louisiana State University, Natchitoches (USA)

Frank Kurzel, University of South Australia, Adelaide (Australia)

Fred Kohun, Robert Morris University, Pennsylvania (USA)

Susan Smith Nash, Victoria Resources, Norman, Oklahoma (USA)

Marguerite Newcomb, University of Texas at San Antonio, Texas (USA)

Mark Stansfield, University of the West of Scotland, Paisley (UK)

Miguel-Angel Sicilia, University of Alcalá, Madrid (Spain)

Robert Skovira, Robert Morris University, Pennsylvania (USA)

The mission of the *Interdisciplinary Journal of E-Learning and Learning Objects* (IJELLO) is to provide readers around the world with the widest possible coverage of developments in E-Learning and Learning Objects. IJELLO is an interdisciplinary forum that publishes high quality articles on theory, practice, innovation, and research that cover all aspects of E-learning and Learning Objects.

IJELLO is an academically peer reviewed Journal. All submissions are blind refereed by three or more peers. IJELLO is published in print by subscription and its articles also appear online free of charge on the web site <http://ijello.org>

IJELLO is listed in Cabell's Directory of Publishing Opportunities in Educational Technology & Library Science, Cabell's Directory of Publishing Opportunities in Educational Curriculum & Methods, Directory of Open Access Journals (DOAJ), EBSCO, Index of Information Systems Journals, Intute, Ulrichs.

**Copyright of Material Published in the  
Interdisciplinary Journal of E-Learning and Learning Objects**

Material published as part of this journal, either on-line or in print, is copyrighted by the Informing Science Institute. Permission to make digital or paper copy of part or all of these works for personal or classroom use is granted without fee provided that the copies are not made or distributed for profit or commercial advantage AND that copies 1) bear this notice in full and 2) give the full citation on the first page. It is permissible to abstract these works so long as credit is given. To copy in all other cases or to republish or to post on a server or to redistribute to lists requires specific permission and payment of a fee. Contact [Publisher@InformingScience.org](mailto:Publisher@InformingScience.org) to request redistribution permission.

**ISSN: online 1552-2237; print 1552-2210; CD 1552-2229**

**ISBN: 1-932886-53-2**

**978-1-932886-53-5**

Published by the Informing Science Institute  
131 Brookhill Ct., Santa Rosa, California USA  
phone: +1-707-537-2211; fax: +1-480-247-5724  
<http://informingscience.org>

## IJELLO Volume 8, 2012 – Table of Contents

The Resonance Factor: Probing the Impact of Video on Student Retention in Distance Learning <b>Nitza Geri</b> .....	1-13
Assessing the Effectiveness of Web-Based Tutorials Using Pre- and Post-Test Measurements <b>Retta Sweat Guy and Millicent Lownes-Jackson</b> .....	15-38
Has Distance Learning Become More Flexible? Reflections of a Distance Learning Student  <b>Theda Thomas</b> .....	39-49
Design and Development of an E-Learning Environment for the Course of Electrical Circuit Analysis <b>Omer Deperlioglu, Utku Kose, and Ramazan Yildirim</b> .....	51-63
Introduction to the IJELLO Special Series of Chais Conference 2012 Best Papers <b>Nitza Geri, Avner Caspi, Sigal Eden, Yoram M. Kalman, Yoav Yair, and Yoram Eshet-Alkalai</b> .....	65-71
Teachers' Openness to Change and Attitudes towards ICT: Comparison of Laptop per Teacher and Laptop per Student Programs <b>Ina Blau and Yehuda Peled</b> .....	73-82
The Impact of Learning with Laptops in 1:1 Classes on the Development of Learning Skills and Information Literacy among Middle School Students <b>Ornit Spektor-Levy and Yael Granot-Gilat</b> .....	83-96
A Study of Online Exams Procrastination Using Data Analytics Techniques <b>Yair Levy and Michelle M. Ramim</b> .....	97-113
Lifelong Learning at the Technion: Graduate Students' Perceptions of and Experiences in Distance Learning <b>Rania Hussein-Farraj, Miri Barak, and Yehudit Judy Dori</b> .....	115-135
Kindergarten Children's Perceptions of "Anthropomorphic Artifacts" with Adaptive Behavior <b>Asi Kuperman and David Mioduser</b> .....	137-147
Learning about Ecological Systems by Constructing Qualitative Models with DynaLearn <b>Moshe Leiba, Ruth Zuzovsky, David Mioduser, Yehuda Benayahu, and Rafi Nachmias</b> .....	165-178
On-Line Project-Based Peer Assessed Competitions as an Instructional Strategy in Higher Education <b>Ronen Hammer, Miky Ronen, and Dan Kohen-Vacs</b> .....	179-192
An Object Oriented Approach to Improve the Precision of Learning Object Retrieval in a Self Learning Environment <b>V. R. Raghuveer and B. K. Tripathy</b> .....	193-214

