13th ANNUAL

ED-MEDIA 2001

World Conference on Educational Multimedia, Hypermedia & Telecommunications

Final Program

June 25-30, 2001 • Tampere, Finland

Hosted by:
University of Tampere

Supporting Universities/Institutes/Companies
The City of Tampere
e-Tampere
Espoo-Vantaa Institute of Technology
Finnish Technology Fund
Häme Polytechnic
IBM Mindspan Solutions
Ministry of Education
Nokia
Sonera
Tampere University of Technology
Teleste Educational

Corporate Co-sponsors:

➤ Papers
➤ Panels
➤ SIG Discussions
➤ Interactive Sessions
➤ Tutorials/Workshops
➤ Posters/Demonstrations
➤ Corporate Demonstrations
ED-MEDIA 2001
World Conference on Educational Multimedia, Hypermedia & Telecommunications

OVERVIEW

SUNDAY, JUNE 24
Registration (Tampere Hall) .................................................4:00-8:00 PM

MONDAY, JUNE 25
Registration (Tampere Hall) ...............................................7:30 AM-5:00 PM
Morning Tutorials/Workshops ..............................................8:30 AM-12 NOON
Lunch Break ........................................................................12 Noon-1:30 PM
Afternoon Tutorials/Workshops ...........................................1:30-5:00 PM

TUESDAY, JUNE 26
Registration (Tampere Hall) .................................................7:30 AM-6:00 PM
Morning Tutorials/Workshops ..............................................8:30 AM-12 NOON
Lunch Break ........................................................................12 Noon-1:30 PM
Afternoon Tutorials/Workshops ...........................................1:30-5:00 PM
Welcome Reception ................................................................7:00-8:30 PM

WEDNESDAY, JUNE 27
Registration (Tampere Hall) ...............................................7:30 AM-5:00 PM
Welcome & General Session (Keynote) ..............................8:15-9:30 AM
Beverage Break ...................................................................9:30-10:00 AM
Morning Concurrent Session ..............................................10:00 AM-12:15 PM
Lunch Break .........................................................................12:15-1:30 PM
Afternoon Concurrent Session .............................................1:30-5:00 PM
Beverage Break ..................................................................2:30-2:45 PM
SIG Discussions .................................................................5:00-6:00 PM
Poster/Demonstrations .......................................................6:00-8:00 PM

THURSDAY, JUNE 28
Registration (Tampere Hall) ...............................................8:00 AM-5:00 PM
General Session (Keynote) ..................................................8:30-9:30 AM
Beverage Break ...................................................................9:30-10:00 AM
Morning Concurrent Sessions .........................................10:00 AM-12:15 PM
Lunch Break .........................................................................12:15-1:30 PM
Afternoon Concurrent Sessions ..........................................1:30-5:00 PM
Beverage Break ..................................................................2:30-2:45 PM
Poster/Demonstrations .......................................................6:00-8:00 PM

FRIDAY, JUNE 29
Registration (Tampere Hall) ...............................................8:00 AM-5:00 PM
General Session (Keynote) ..................................................8:30-9:30 AM
Beverage Break ...................................................................9:30-10:00 AM
Morning Concurrent Sessions .........................................10:00 AM-12:15 PM
Lunch Break .........................................................................12:15-1:30 PM
Afternoon Concurrent Sessions ..........................................1:30-5:00 PM
Beverage Break ..................................................................2:30-2:45 PM
Finnish Evening (see details below) ....................................6 PM-

SATURDAY, JUNE 30
Registration (Tampere Hall) ...............................................8 AM-4:15 PM
General Session (Keynote) ..................................................8:30-9:30 AM
Beverage Break ...................................................................9:30-10:00 AM
Morning Concurrent Sessions .........................................10:00 AM-12:15 PM
Lunch Break .........................................................................12:15-1:30 PM
Afternoon Concurrent Sessions ..........................................1:30-3:45 PM
Closing Remarks .................................................................3:45-4:15 PM

NOTE: For presentation room locations, see pages 31 and 32.

For Social Program and Tour dates/times, see:
http://www.uta.fi/hyper/edmedia

Keynote Speakers

June 27, 8:30-9:30 AM
E-Learning and M-Learning in the Corporate Sector; Need for New Concepts and a New Mindset for Learning, Training and Competence Development
Juha Lipiäinen, Director, System & Application Development in Broadband Systems Unit in Nokia Networks, Nokia, Finland

June 28, 8:30-9:30 AM
E-Learning to Solve Problems
David Jonassen, University of Missouri, USA

June 29, 8:30-9:30 AM
The Learning Federation: A Research Agenda for Transforming Learning in the Digital Age
Randy J. Hinrichs, Group Research Manager, Learning Sciences and Technology, Microsoft Research, Microsoft, USA

June 30, 8:30-9:30 AM
Guidelines for Designing and Developing Online e-Learning Courses Including Intellectual Property Considerations
Gary Bitter, Arizona State University, USA

Invited Speakers

June 27
E-Learning: Instructional Design Considerations
Barbara Grabowski, Instructional Systems Program, Pennsylvania State University, USA

Learning Repositories - Technology and Context
Wolfgang Nejdl, University of Hannover, Germany

June 28
E-Learning and the Professorate: The Issue of Productivity
Thomas C. Reeves, The University of Georgia, USA

Relationships Among Learner Characteristics, Course Design Factors, and Student Perceptions of Learning Online
Karen Swan, University at Albany Graduate School of Education; Director of the Learning Technologies Laboratory and the Summer Technology Institute, USA

June 29
Linking Organizational Knowledge and Learning
Betty Collins, University of Twente, The Netherlands

The Online Learning Alchemist: Strategies for Preventing Gold from Turning into Lead
Rod Sims, Deakin University, Australia

June 30
The Galileo Educational Network: Bringing Learning to Learners
Pat Clifford & Sharon Friesen, Galileo Educational Network, Canada

Dynamic Tools for Problem-based Learning
Erno Lehtinen, Professor of Education, University of Turku, Finland

Friday, June 29 • Finnish Evening • 6:00 PM -?
Experience a cruise on Lake Näsijärvi with a 93-year-old romantic Steamship s/s Tarjanne. See the fabulous route to Maisansalo and spend a mild summer night by beautiful lakeside. Delicious Finnish Menu is served in Maisansalo. The way to Maisansalo by steamship, return by bus or vice versa. Cost: 70 EUR;
Registration: http://www.uta.fi/hyper/edmedia/programme.html
Tutorials & Workshops – Monday, June 25 & Tuesday, June 26

Tutorials and Workshops will be held at the University of Tampere. Tutorials are indicated by a T# and have a lecture/demonstration format. Workshops are indicated by a W# and are primarily hands-on sessions.

**MONDAY, JUNE 25 8:30 AM-12 NOON**

**UNIV. MAIN BLDG., A3**
T1: Web Course Design and Implementation from Idea to Completion  
Leon Combs, Kennesaw State Univ., USA

**UNIV. MAIN BLDG., A4**
T2: Streaming Media 2001 – A Media Odyssey  
Tony Klejna, Daemen College, USA

**UNIV. MAIN BLDG., Computer Room 4**
Andrew Burrell and Robyn Philip, Centre for Flexible Learning, Macquarie Univ., Australia

**MONDAY, JUNE 25 1:30 AM-5:00 PM**

**UNIV. MAIN BLDG., A3**
T3: Creating Intuitive Interfaces for Learning  
Susan E. Metros, Univ. of Tennessee, USA; John Hedberg, Univ. of Wollongong, Australia

**UNIV. MAIN BLDG., A4**
T4: Designing Instruction for Online Learning and Teaching  
Som Naedi, Univ. of Melbourne, Australia

**UNIV. MAIN BLDG., A2A**
T12: Designing an Upper-Level Course in Interactive Multimedia  
Rachelle Heller, George Washington Univ., USA

**UNIV. MAIN BLDG., Computer Room 4**
W2: Computer-Assisted Assessment: Developing Skills in Both Qualitative and Quantitative Assessment Online  
Catherine McLaughlin, Univ. of New England, Australia; Joe Luca, Edith Cowan Univ., Perth Australia

**TUESDAY, JUNE 26 8:30 AM-12 NOON**

**UNIV. MAIN BLDG., A2A**
T5: International Masters Showcase: Corporate Training  
Rod Sims, Michael Spector & Ileana de la Teja, Deakin Univ., Australia

**UNIV. MAIN BLDG., A1**
Curtis J. Bonk, Indiana Univ., and CourseShare.com, USA; Vanessa Paz Dennen, San Diego State Univ., USA

**UNIV. MAIN BLDG., A2B**
T7: Evaluating Interactive Learning, Part I  
Thomas Reeves, Univ. of Georgia, USA; John Hedberg, Univ. of Wollongong, Australia; Mary Marlinlo, Program for the Advancement of Geosciences, USA

**UNIV. MAIN BLDG., Computer Room 4**
W3: Creating Rich, Interactive 3D e-Learning and e-Training Web Applications  
Dan Melbin, Senior Technology Evangelist, Pulse Entertainment; 3D modeling instructor, Center For Electronic Art, & San Francisco State Multimedia Studies Program, USA

**TUESDAY, JUNE 26 1:30 AM-5:00 PM**

**UNIV. MAIN BLDG., A2A**
T8: International Masters Showcase: Education  
Rod Sims, Michael Spector & Ileana de la Teja, Deakin Univ., Australia

**UNIV. MAIN BLDG., A1**
T9: Teaching on the Web II: With a Little More Help from My Pedagogical Friends, Part II  
Curtis J. Bonk, Indiana Univ., & CourseShare.com, USA; Vanessa Paz Dennen, San Diego State Univ., USA

**UNIV. MAIN BLDG., A2B**
T10: Evaluating Interactive Learning, Part II  
Thomas Reeves, The Univ. of Georgia, USA; John Hedberg, Univ. of Wollongong, Australia; Mary Marlinlo, Program for the Advancement of Geosciences, USA

**UNIV. MAIN BLDG., Computer Room 4**
T11: Adaptive Hypermedia and its Implementation on the World Wide Web  
Peter Brusilovsky, Univ. of Pittsburgh, USA

**IMPORTANT Conference Information**

- **For admission to conference activities, you must wear your badge**
- **E-mail stations:** Located in University Main Building, Computer Room 10 (see map on page 31). There also are computers available in the University Main Entrance Level. See bulletin board in registration area for hours available.
- **Presenter’s Index:** page 24, to help you locate specific sessions
- **SIG:** Remember to Sign Up for Special Interest Group (SIG) Discussions before Wednesday, Noon. See bulletin board in Registration Area.
- **Notice:** Employment Networking bulletin boards are available for posting new position announcements and resumes. If you have a job position available or are seeking employment, a 1-page job position announcement or resume may be posted on the conference Employment Networking bulletin board.

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**Welcome Reception & Get-Together Party (hosted by the City of Tampere)**

7:00-8:30 PM

The Welcome Reception will be held in the Vapriikki Museum.

Bus transportation to the museum will begin leaving from the front of Tampere Hall at 6:00 PM.

(Please note that smoking is not permitted in the Museum.)

**SPECIAL THANKS TO:** All ED-MEDIA 2001 Program and Local Committee members particularly the Program Chairs: Craig Montgomerie (Univ. of Alberta) and Jarmo Viteli (Univ. of Tampere); Carolina Pajula and her Tampere planning team; Jerry Price (Univ. of Houston), David Drucker (Univ. of Virginia) and their technical support staff; the University of Tampere and its Hypermedia Lab, and the conference sponsors. We would also like to thank all other volunteers for their help.
Concurrent Sessions – Wednesday, June 27

Concurrent sessions include the following: Invited Speakers (1 hr.); Panels (1 hr.); Full Papers (25 min./two per hour; Brief Papers (15 min.)/three per hour; Interactive Sessions (1 hr.); and Corporate Showcases (1 hr.).

To better enable you to make maximum use of your time, all papers are categorized by topic and sub-topic. Mix and match the session topics to receive the information most beneficial to you.

Interactive Sessions: These hands-on presentations will be held in Computer Room 4. Seating is limited to 24.

Wednesday, June 27

8:15-8:30 AM
TAMPERE HALL MAIN AUDITORIUM
Welcome & Opening
Jorma Sipilä
Rector of Univ. of Tampere, Finland

8:30-9:30 AM
TAMPERE HALL MAIN AUDITORIUM
Keynote
E-Learning and M-Learning in the Corporate Sector;
Need for New Concepts and a New Mindset for Learning, Teaching and Competence Development
Juha Lipläinen, Director
System & Application Development in Broadband Systems Unit in Nokia Networks, Nokia, Finland

Beverage Break: 9:30-10:00 AM

REMINDER: SIG Discussions are 5-6 PM today. By 12 noon today, be sure to create a topic for a SIG or sign up for an existing discussion group at the Bulletin Board, Registration Desk. These discussions are excellent opportunities to explore topics informally with colleagues.

10:00-11:00 AM
UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)
E-Learning: Instructional Design Considerations
Barbara Grabowski, Instructional Systems Program, Pennsylvania State Univ., USA

PINNI BLDG., PAAVO KOLI/Full: CES
HCI
Understanding Cross-Cultural Meanings in Online Web Displays
Ian Brown, and John Hedberg, Univ. of Wollongong, Australia

HCI
Childrens’ Multimedia Nutrition Simulation Software
D. Michael Anderson, Health Media Lab, Inc., USA; Mark Kantor, Univ. of Maryland, USA

UNIV. MAIN BLDG., D11/Full: Cases
Learn
Quiz collaboration - cheating or a learning opportunity?
Robert Lundquist, Lulea Univ. of Technology, Sweden

Learn
Six WWW Based Learner Supports you can Build
Koos Winnips, Univ. of Enschede, The Netherlands; Catherine Mcloughlin, Univ. of New England, Australia

UNIV. MAIN BLDG., TYT Auditorium/Full: Cases
Learn
Flexibility, efficiency and enrichment in WWW-based learning environments?
Wim De Boer, Univ. of Twente, The Netherlands

Learn
Is it possible to teach music in a classroom from a distance of 1000 km?
Learning environment of music education using ISDN-videocconference
Jukka Maki, Univ. of Oulu, Finland

TAMPERE HALL, STUDIO/Full: CES
Infra
Give it a go! - Using interactive digital television to help passive viewers become active learners
Matthew Love, Sheffield Hallam Univ., England

Infra
eLearning, teaching and training: A first look at principles, issues and implications
Malcolm Ryan and Lynda Hall, Univ. of Greenwich, UK

UNIV. MAIN BLDG., D10 B/Full: Cases
Cases
Distance Training as part of a Distance Consulting solution
Giovanni Fuliartelli, Giuseppe Chiassoc, and Mario Allegro, Italian National Research Council, Italy

Cases
Flexible Audit Trailing in Interactive Courseware
Gregor Kennedy and Terry Judd, Univ. of Melbourne, Australia

PINNI BLDG., 0081/Full: Cases
Cases
A Small History of A Communication Board for Collaborative Learning
Matthew Love, Sheffield Hallam Univ., England; Tatsuya Horita, Shizuko Univ., Japan; Yuhei Yamauchi, Ibaraki Univ., Japan; Tadashi Inagaki, Kansai Univ., Japan; Takashi Minowa, NHK, Japan

Cases
A Virtual Study Visit of the World’s First Trigeneration Power Plant
Hai Yu and Per Almqvist, Royal Inst. of Technology, Sweden; Johan Alsparr, Birka Energi AB, Sweden

UNIV. MAIN BLDG., D16/Full: Cases
Cases
Participant Interaction Models and Roles in a CSCL Environment:
A Malaysian Case Study
Esther Daniel, Faculty of Education, Univ. of Malaya, Malaysia

Cases
Web-based strategies for improving undergraduate commitment to learning
Malcolm Andrew, De Montfort Univ., England

UNIV. MAIN BLDG., D17/Full: Cases
Tools
Teaching OOT Using a Framework and both Direct and Net-based Tutoring
Birgit Derneth and Heinrich Hussmann, Dresden Univ. of Technology, Germany; Lothar Schmitz, Univ. of the Federal Armed Forces Munich, Germany; Steffen Zschaier, Dresden Univ. of Technology, Germany

Tools
The Solver Learning Environment and Anchored Instruction on Mathematical Word Problem-Solving
Hell Ruokamo, Univ. of Lapland, Finland

UNIV. MAIN BLDG., A1/Full: Cases
Tools
The Design and Implementation of a Web-based Distance Learning System: Problems and Issues
Miwah Lee, Pusan National Univ. of Education, South Korea

Tools
The Interactive LoD - Pedagogically Driven eLearning
Chris Cheers, T. Elangovan, and Ivo Widjaja, NgeeAnn Polytechnic, Singapore

UNIV. MAIN BLDG., A3/Full: CES
Tools
Fostering Mental-Model Thinking During Design
Alyse Hachey, Lisa Tseui, and John Black, Teachers College, Columbia Univ., USA

Infra
The necessity of considering cultural influences in online collaborative learning
Ruth Geer, Univ. of South Australia, Australia
Concurrent Sessions – Wednesday, June 27

UNIV. MAIN BLDG., A4/Full: CES
Tools
Computer-based cognitive tools: Description and design
David Kennedy, Monash Univ., Australia; Carmel McNaught, RMIT Univ., Australia
Tools
Development of Componentware-Based Software for Learning English as a Foreign Language
Ryozo Matsuno and Richard Gilbert, Prefectural Univ. of Kumamoto, Japan; Yutaka Tsutsumi, Kumamoto Gakuen Univ., Japan; Kazuo Ushijima, Kyusyu Univ., Japan

PINNI BLDG., 0078/Full: Cases
Cases
Learning of key scientific concepts in a web-based on-campus collaborative learning environment.
Robert Kemm, Neil Williams, Helen Kanavoudias, Paul Fritz, and Nick Stone, The Univ. of Melbourne, Australia
Learn
Use of videoconferencing with computer-supported co-operative work (GSCW)
Sissel Guttmersen Schär, Swiss Federal Inst. of Technology, Switzerland; Peter J. Haubner, Univ. of Karlsruhe, Germany; Helmut Krueger, Swiss Federal Inst. of Technology, Switzerland

UNIV. MAIN BLDG., Computer Room 4/Interactive Session
The Integrated Electronic Course Portfolio (IECP)
Yifla Firdyiwek, Univ. of Virginia, USA

UNIV. MAIN BLDG., A10 A/Panel (1 hour)
Those who cannot remember the past are condemned to repeat it.
Craig Montgomery, Michael Szabo, Eugene Romaniuk, and David Mappin, Univ. of Alberta, Canada

PINNI BLDG., PAAVO KOLI/Brief: Demo
Tools
Enhancing Teacher Preparation Using Free WWW-based Tools
Virginia Resta, Southwest Texas State Univ. USA;
Learn
Meeting Teacher Technology Competencies in the Classroom with a Focus on Writing/Communication Skills
Martha Beasley, Lees-McRae College, USA
Learn
Teaching Scientific Thinking Skills: Students and Computers Coaching Each Other
Lisa A. Scott and Frederick Reif, Carnegie Mellon Univ., USA

UNIV. MAIN BLDG., D11/Brief: NewDev
Infra
A PDA-based classroom computer system
Adolfo Riera, Jose Vila, and Senen Baro, Univ. de Santiago de Compostela, Spain
Learn
Collaborative learning environments: Integrating informal learning experiences in the home with learning at school
Helen Brown, BECts, England
Infra
The Faculty Development Center as a Means of Cultivation of Needed Skills in Interface Design, Multimedia and Hypermedia
Androi Strukov, The Univ. of Maine, USA

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev
Learn
A Constructivist Teacher Training Model to Design Educational Activities Based on ICT
Simona Ottaviano, Antonella Chifari, and Allegra Mario, Italian National Research Council, Italy
Learn
Problem solving strategies - Is there a better way?
Gwyn Brickett, John Hedberg, Brian Ferry, and Barry Harper, Univ. of Wollongong, Australia
Learn
The Development of Pedagogy for TeleLearning in Knowledge-Building Communities
Ken Stevens, Memorial Univ. of Newfoundland, Canada

TAMPERE HALL, STUDIO/Full: CES
Tools
Design Principles of an Open Agent Architecture for Web-based Learning Community
Jianhua Ma and Ruinhe Huang, Hsieh Univ., Japan; Timothy Shih, Tamkang Univ., Taiwan
Learn
Teacher Survival in a Web-based Constructivist Learning Environment - The Malaysian Experience
Abtar Kaur and Kuldip Kaur, Univ. of Malaysia, Malaysia

UNIV. MAIN BLDG., D10 B/Brief: Demo
Learn
Evolution of a Student Model Building Program Designed to Assist Understanding of Biological Control Systems
Debby Weaver, Robert E. Kemm, Petrovic T., Gilding T., and Harris Peter, The Univ. of Melbourne, Australia
Learn
Hypermedia and Education: A Technology Integration Course
Chrystella Mouza and Shaio-Chuan Kung, Teachers College, Columbia Univ., USA
Learn
Technology support for the faculty
Burcu Tunca and Kemal Cafeke, The George Washington Univ., USA

PINNI BLDG., 0081/Brief: Demo
Cases
Camp Internet - A case study of an effective Classroom online curriculum and Teacher Training program
Timothy Tyndall, Camp Internet/RAIN Network, USA;
Cases
TEOREMA (Teaching Online Project for Economic Mathematics)
Guangpiero Lomolino, CILEA, Italy; Silvana Stefani, Univ. of Milan-Bicocca, Italy; Anna Torriero, Univ. of Brescia, Italy
Tools
Web-based Collaborative Architectural Design System: CD@D
Myunghoe Kang, Ewha Womans Univ., Korea; Uk Kim, Hongik Univ., Korea

UNIV. MAIN BLDG., D16/Brief: Demo
Cases
Movie-Based Media in Teaching Business English
Tatiana Sobodina, Northern International Univ., Russia
Cases
Technology Opportunity Centers: Closing Digital Divide
Tatiana Solovieva, West Virginia Univ., USA
Cases
The Internet Shared Laboratory Project
Andrea Bagnasco, Marco Cherico, and Anna Marina Scapolla, Univ. of Genova, Italy

UNIV. MAIN BLDG., D17/Brief: Demo
HCI
CD-Drives: The development of the user interface for an educational CD-ROM
Michael O’Dea, Waikato Polytechnic, New Zealand
Tools
Developing Multimedia CD Product Using an Authoring Software
Kimberly Jackson, Gary Smith, and Sally O’Connor, Xavier Univ. of Louisiana, USA
HCI
From Jupiter to Jerusalem: Harnessing Virtual Reality and Visualization Technologies to Teaching Planetary Sciences
Yoav Yair, The Open Univ. of Israel; Israel; Rachel Mintz, Tel-Aviv Univ., Israel

UNIV. MAIN BLDG., A1/Full: CES
HCI
E-Learning has to be seen as part of general Knowledge Management
Hermann Maurer, Technical Univ. of Graz, Austria; Marianne Sapper, Surfmed, Austria
Learn
Preliminary Evaluation on a Web-mediated School for All
Shelley Shiu-ching Young, National Tsing Hua Univ., Taiwan; Tak-wai Chan and Chou-Bin Lin, National Central Univ., Taiwan

UNIV. MAIN BLDG., A3/Brief: Demo
Tools
“A CALL—programs family”: Vous dites?! ** ALFAGRAM ** IDIOMA-TIC
Bert Wylin, K.U.Leuven Campus Kortrijk, Belgium
Tools
A Framework based Approach for Intelligent Multimedia in Education
Dr Kinshuk and Hong Hong, Massey Univ., New Zealand; Ashok Patel, De Montfort Univ., UK; Chris Jesshope, Massey Univ., New Zealand
Tools
Shadow netWorkspace
Dale Musser and James Laffey, Univ. of Missouri, USA

UNIV. MAIN BLDG., A4/Brief: Demo
Tools
Programming-free Web-based Automatic Online Drill/Quiz Creator
Etsuo Kobayashi, College of Community and Human Services, Risoko Univ., Japan; Shinobu Nagashima, Rikkyo Univ., Japan; Mitsuaki Hayase, Me Univ., Japan
Tools
Virtual Reality Simulations in Physics Education
Jong-Heon Kim, Heebok Lee, and Keun-Cheol Yuk, Kongju National Univ., South Korea; Heeman Lee, Seowon Univ., South Korea
Learn
The educational uses of computers by mathematics teachers in Zimbabwe
Tonderai Maswera, Bindura Univ. of Science Education, Zimbabwe; Chipo Shubukana, Robert E. Kemm, Petrovic T., Gilding T., and Harris Peter, The Univ. of Melbourne, Australia

PINNI BLDG., 0078/Full: Demo
Learn
E-Learning: Challenges and Inhibitors
Hans Boon, Univ. of Pretoria, South Africa
Cases
Generating Creative Vital Orientations in Cyberspace
Agata Cudowska, Univ. of Bialystok, Poland
Cases
MAMBO - Experiences from developing, implementing and evaluating a multimedia enhanced distant education learning system
Tobias Hofmann and Thore Schmidt-Tjarksen, Bauhaus Univ. Weimar, Germany
### Concurrent Sessions – Wednesday, June 27

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<tr>
<th>Session</th>
<th>Location</th>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>Lunch Break</td>
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<td>12:15-1:30 pm</td>
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<td><strong>1:30-2:30 PM</strong></td>
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<td><strong>UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)</strong></td>
<td>Learning Repositories - Technology and Context</td>
<td>Wolfgang Nejdl, Univ. of Hannover, Germany</td>
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<td><strong>TAMPERE HALL, STUDIO/Corporate Showcase (1 hour)</strong></td>
<td>Object Oriented Approach - Experience Contextuality and Collaboration in a Learning Environment</td>
<td>Eric Rousselle, Development Manager, New Communications Services, Sonera Corp., Finland</td>
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<tr>
<td><strong>PINNI BLDG., PAAVO KOLI/Full: CES</strong></td>
<td>Standardized Metadata for Education: A Status Report</td>
<td>Erik Duval, Katholieke Univ. Leuven, Belgium</td>
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<td>Expanding e-Learning effectiveness: The shift from content orientation to knowledge management utilization</td>
<td>Milibadi Lytras, Georgios Doukidis, and Theodora Skagkou, Athens Univ. of Economics and Business, Greece</td>
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<tr>
<td><strong>UNIV. MAIN BLDG., D11/Full: Cases</strong></td>
<td>Online Curriculum Projects: Facilitating Collaborative Leadership Opportunities</td>
<td>Ann Trevern, Univ. of Otago, New Zealand</td>
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<td><strong>UNIV. MAIN BLDG., TYT Auditorium/Full: CES</strong></td>
<td>Online assessment criteria in action: Task design in contrasting tertiary education contexts</td>
<td>Amanda Kendle, Univ. of Western Australia, Australia; Maria Northcote, Edith Cowan Univ., Australia</td>
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<tr>
<td><strong>UNIV. MAIN BLDG., D10 B/Full: Cases</strong></td>
<td>An educational evaluation of WebCT: A case study using the conversational framework</td>
<td>Dawn Carmichael, Univ. of Abertay Dundee, Scotland</td>
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<td><strong>PINNI BLDG., 0081/Full: Cases</strong></td>
<td>How to implement multimedia metaphors within museum materials</td>
<td>Jason Taylor, Jane Wood, and Simon Robertshaw, International Centre for Digital Content, UK</td>
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<td><strong>UNIV. MAIN BLDG., D16/Full: Cases</strong></td>
<td>Energy-education through the Web with interactive comics</td>
<td>Katja Pesonen, TUT/OMI/Hypermedia Laboratory, Finland</td>
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<td>Evaluation of Asynchronous Web-assisted Instruction: A Case Study of NTU WAI Project</td>
<td>Hsiu-Ping Yueh and Chih-Yin Hsiao, National Taiwan Univ., Taiwan, R.O.C.</td>
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<td><strong>UNIV. MAIN BLDG., D17/Full: CES</strong></td>
<td>Flexible Delivery Damaging to Learning? Lessons from the Canterbury Digital Lectures Project</td>
<td>Bell Tim, Andy Cockburn, Bruce McKenzie, and John Vargo, Univ. of Canterbury, New Zealand</td>
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<td>Text and Interactive Panoramic Imagery: Psychological Findings that Affect their Use in Education and Training</td>
<td>John Black, Teachers College, Columbia Univ., USA</td>
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<td><strong>UNIV. MAIN BLDG., A1/Full: CES</strong></td>
<td>Planning for E-Course Success</td>
<td>Leon Combs, Kennesaw State Univ., USA</td>
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<td>Informal Interaction in Online Teaching and Learning</td>
<td>Juan José Contreras Castillo, Univ. de Colima, Mexico; Carmen Pérez Fragoso, Univ. Autónoma de Baja California, Mexico; Jesús Favela Vera, Centro de Investigación Científica y Educación Superior de Ensenada, Mexico</td>
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<td><strong>UNIV. MAIN BLDG., A3/Full: SysRes</strong></td>
<td>A Collaborative Learning Support Based on Inference Mechanism of Group Actions and Reactions</td>
<td>Tomoko Kojiri and Toyohide Watanabe, Nagoya Univ., Japan</td>
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<td>Teaching Cognitively Complex Concepts: Content Representation for AudioGraph Lectures</td>
<td>Eva Heinrich, Chris Jesshope, and Nic Walker, Massey Univ., New Zealand</td>
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<td><strong>UNIV. MAIN BLDG., A4/Full: CES</strong></td>
<td>Discover Sequential Patterns of Learning Concepts for Behavioral Diagnosis by Interpreting Web Page Contents</td>
<td>Chih-Kai Chang, Da-Yeh Univ., R.O.C.; Kuen-Shan Wang, R.O.C.</td>
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<td><strong>PINNI BLDG., 0078/Full: Cases</strong></td>
<td>Metacognitive development in a web-based collaborative environment</td>
<td>Christopher Andersen, Ohio State Univ. &amp; NASA Classroom of the Future, USA</td>
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<td><strong>PINNI BLDG., PAAVO KOLI/Brief: NewDev</strong></td>
<td>Improving assessment: Rubrics in a tertiary multimedia course</td>
<td>Barney Clarkson and Joe Luca, Edith Cowan Univ., Australia</td>
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<td>Power Struggles around Integrated Learning Environments: A comparative case study</td>
<td>Debbie Holley and Martin Oliver, Univ. College London, England</td>
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<td><strong>UNIV. MAIN BLDG., D10 A/Panel (1 hour)</strong></td>
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<td>Jan multisida, Pori School of Technology and Economics, Finland</td>
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<td><strong>TAMPERE HALL, STUDIO/Full: CES</strong></td>
<td>Considerations of Spatial Ability in Learning from Animation</td>
<td>Lih-Juan ChanLin, Fu-Jen Catholic Univ., Taiwan</td>
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<td>Multisensory Virtual Environment for Supporting Blind Persons’ Acquisition of Spatial Cognitive Mapping - a Case Study</td>
<td>Orly Lahav and David Mindtler, Tel-Aviv Univ., School of Education, Israel</td>
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<td><strong>PINNI BLDG., PAAVO KOLI/Brief: NewDev</strong></td>
<td>An Economic Analysis of Technology Enhancements to a Large Lecture Course, Preliminary Report</td>
<td>Diane Harley, Univ. of California, Berkeley, USA</td>
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<td>Enhancing student access to the University: The integration of online and course-based material for the visually impaired.</td>
<td>Ray Archee and Monica Whity, Univ. of Western Sydney, Australia</td>
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<td>Teaching How to Think in Cyberspace</td>
<td>Rosalba Gamez and Hector Schwabe, Univ. Autonomametropolitana, Mexico</td>
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<td><strong>UNIV. MAIN BLDG., D11/Brief: NewDev</strong></td>
<td>Is the future of eLearning in mobile devices?</td>
<td>Jan Multisida, Pori School of Technology and Economics, Finland</td>
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<td><strong>UNIV. MAIN BLDG., D11/Brief: NewDev</strong></td>
<td>New Strand of Media Technology in Architects: Forming Curriculum and Career</td>
<td>James T.J. Wang, National Taipei Univ. of Technology, Taiwan</td>
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<td>Some Educational Approaches Using Multimedia Technologies</td>
<td>Nicoletta Sala, Univ. of Italian Switzerland, Switzerland</td>
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<td>The Rhetoric and Reality of Change</td>
<td>Michael Cunningham, Beverly Farrow, and Teresa Eagle, Marshall Univ., USA</td>
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<td><strong>UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev</strong></td>
<td>Disruptions in University Classes Introducing Topics-based Discussion Using the Web Bulletin Board</td>
<td>Kenji Akahori, Tokyo Inst. of Technology, Japan</td>
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<td>The Effects of CALL on Teaching English as a Foreign Language</td>
<td>Isabel Hernandez, Univ. de Quintana Roo, Mexico</td>
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<td>Novice Professionals, not Senior Students: Learning to take part in professional practice</td>
<td>David Walker, McMaster Univ., Canada</td>
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Concurrent Sessions – Wednesday, June 27

UNIV. MAIN BLDG., D10 B/Brief: NewDev
Learn Reflections on the Use of an Integrated Computer-based Collaborative Learning Program in a Curriculum Design Course for Science Teachers
James P. Barufaldi and Victor A. Zinger, The Univ. of Texas-Austin, USA

HCI Inspiration and drawing
Robin Shaw, London Inst., UK

HCI Learning on the Move: Vocabulary study via Email and Mobile Phone SMS
Patricia Thornton and Chris House, Kinjo Gakuen Univ., Japan

PINNI BLDG., 0081/Brief: NewDev
Cases A Multimedia Business Simulation Game: Making Decisions That Count
David M Kennedy, Kim Styles and Wendy Doube, Monash Univ., Australia

Cases For the fear of being wrong: Group dynamics in cyberspace
Mike Davis, Univ. of North London, England; Sue Ralph, Univ. of Manchester, England

Cases Preliminary Results of a Pilot Project Internet Based Subject Registration System
Norhayati Ahmad, Wahidah Mansor, and Nor‘aini Abd Jalil, Univ. Teknologi Mara, Malaysia

UNIV. MAIN BLDG., D16/Brief: NewDev
Cases Limitations of Course Delivery by Streaming Media
Maria Victoria Perez Cerejo and Mark Mortensen, Univ. of North Texas, USA

Cases Students’ Use of the Internet as a Help to Write Essays
Burkhard Priemer and Lutz-Helmut Schoen, Humboldt-Univ. Berlin, Germany

Cases The Digital Backpack: Issues in the Development and Implementation of a Digital Portfolio
Carl Hoagland and Eric Apyn, Univ. of Missouri-St. Louis, USA; Mark Rice, XEROX, USA

UNIV. MAIN BLDG., D17/Brief: NewDev
Cases Creating an interactive, multimedia database for supplementing microscopic image analysis: Example of Optical Mineralogy and potential applications in other disciplines
Parvinder Seth, William Smith, Mitch Bupp, John Simmons, and Timothy Rigney, Radford Univ., USA

Cases The Unwired Classroom - Innovative Technologies in Computing Education
Stephen Skelton, UNITEC, New Zealand

Cases Support service to distance students: The implementation process in one Brazilian distance education institution
Marialice Moraes, and Garcia Ricardo Miranda, Distance Education Laboratory - LED, Brazil

UNIV. MAIN BLDG., A1/Brief: Demo
Tools Framework for Medical Case Teaching
Manfred Gengler and Oliver Findl, Univ. of Vienna, Austria

Tools TOETS: Development of a computer assisted assessment system
Eddy Demeersseman, Bert Wylin, and Jos Panen, KULAK, Belgium

Tools To Create Time and Place-Independent Modules
Scott Beckstrand, Community College of Southern Nevada, USA

UNIV. MAIN BLDG., A3/Brief: NewDev
Tools A student model for web-based intelligent educational system
Binglan Han and Dr Kinshuk, Massey Univ., New Zealand; Ashok Patel, De Montfort Univ., UK

Tools Implementation of an Adaptive Questionnaire
Petri Nokelainen, Markku Niemivirta, Henry Tirri, and Jari Vanhatalo, University of Helsinki, Finland

Tools Robots of Architectural Skeleton
James T.J. Wang, National T'aipeh Univ. of Technology, Canada

UNIV. MAIN BLDG., A4/Brief: NewDev
Tools Interactive multimedia web-based testing tool
Kazuyuki Banulis, Vytautas Reklaitis, and Emilis Stuopys, Kaunas Univ. of Technology, Lithuania

Learn Quality Web Course Construction -Learning by Reviewing
Leslie E. Cummings, Univ. of Houston-Clear Lake, USA

Tools Web-based Knowledge Construction System: REAL (Rich Environment for Active Learning)
Myunghlee Kang, Ewha Womans Univ., Korea

PINNI BLDG., 0081/Brief: NewDev
Infra A Design Procedure for Creating Training Courses
Christina Metaxaki-Kossionides, Univ. of Thrace, Greece; Dionysis Xenos, EYDAP, Greece; Nikolaos Giannopoulos, BRS, Greece

Infra AulaWeb: a WWW-based course-support system with self-assessment and student tracking
Raquel Martinez and Angel Garcia Beltran, Univ. Politecnica de Madrid, Spain

Infra Building comic strips in a cooperative way: An interdisciplinary experience
Elsa Beoff and Lucia Giraffa, PUCRS, Brazil

4:00-5:00 PM

UNIV. MAIN BLDG., D10 A/Full: SysRes
HCI Using Web-based Instruction to Develop Language Skills in Turkish
Mire Basal and Gulsun Kurubacak, Anadolu Univ., Turkey

Learn Who Uses the Internet for Educational Purposes? A National Demographic Study in the USA
Xiaoli Cao and Kenneth Gray, Penn State Univ., USA

PINNI BLDG., PAAVO KOLI/Full: CES
Learn Conceptions, Tensions & Theories of Action for Embedding Learning Technologies in Higher Education
Michael Dobson, Lancaster Univ., UK

Learn The Application of Self-Organised Learning for Educators and Students
Vivien Lee, Temasek Polytechnic, Singapore

UNIV. MAIN BLDG., D11/Full: CES
Learn Cognitive learning analysis for strategic educational media development planning
Juhani Tuovinen, Monash Univ., Australia

Learn Developing a model for technology based learning; a practitioner response to a constructivist model
Jane Slisk, South Birmingham College, UK

UNIV. MAIN BLDG., TYT Auditorium/Full: CES
HCI Designing a Pedagogically Sound Web-based Interface: The Critical Role of Prior Knowledge
Thanasis Giouvanakis, Haido Samaras, and Konstantinos Tarabanis, Univ. of Macedonia, Greece

HCI On paper or hypermedia? an empirical study on the effect of procedural information in digital video format in the learning of a computer program by novice users
Jesus Tejada, Univ. de La Rioja, Spain

TAMPERE HALL, STUDIO/Full: CES
Infra A Reference Model for Media-Supported Higher Education MBA on NetAcademy
Peter Mayr, Julia Gerhard, and Sabine Seufert, Univ. of St. Gallen, Switzerland

Learn MediLearning: On the balance between ‘profile learning’ and ‘learning your profile’
Steven Ubi and Joost Lowyc, Catholic Univ. of Leuven, Belgium; Willem Broere and Louis Peeters, Algemeen Pedagogisch Studiecentrum, The Netherlands

UNIV. MAIN BLDG., D10 B/Full: Cases
Cases Teachers’ first encounter with computers: socio-cultural and linguistic role-players at the interface
Duan vander Westhuizen and Elizabeth Henning, Rand Afrikaans Univ., South Africa

Cases The Virtual Print Exhibition: A Case of Learning by Designing
Som Naidu, Jaynie Anderson, and Mathew Riddle, The Univ. of Melbourne, Australia

PINNI BLDG., 0081/Full: CES
Tools Closed-loop Adaptive Education
James McCarthy, John Wayne, and John Morris, Sonalysts, USA

Infra Course Material Model in A&O Learning Environment
Jarkko Levasma and Ossi Nykänen, Tampere Univ. of Technology, Finland

UNIV. MAIN BLDG., D16/Full: Cases
Cases A Rich Learning Environment is yet to come: An Action Evaluation on a National eLearning Project for Elementary Education in Taiwan
Hueching J. Jih, Tamkang Univ., Taiwan
**Concurrent Sessions**

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<th>Cases</th>
<th>Constructivist Instructional Design and Development of a Networked Learning Skills (NICLS) Module for Continuing Professional Distance Education</th>
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<td>Miguel Baptista Nunes, Maggie McPherson, and Mariano Rico, Univ. of Sheffield, UK</td>
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<td><strong>UNIV. MAIN BLDG., D17/Full: CES</strong></td>
<td>Tools</td>
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<td>Parvinder Sethi and Phyllis Newhill, Radford Univ., USA</td>
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<td>Infra</td>
<td>Build it, but they may not come: Designing, maintaining and assessing a successful university-level, instructional-technology multimedia center</td>
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<td>Parvinder Sethi and Phil Lewis, Radford Univ., USA</td>
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<td><strong>UNIV. MAIN BLDG., A1/Full: Other</strong></td>
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<td>Amy Lobben, Central Michigan Univ., USA; Paul Delamater, Central Michigan Univ., USA</td>
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<td>Infra</td>
<td>Development of a Japanese Reading Support System based on Activating Visual Information</td>
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<td>Yukani Kato and Toshio Okamoto, The Univ. of Electro-Communications, Japan</td>
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<td><strong>UNIV. MAIN BLDG., A3/Full: Other</strong></td>
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<td>Julio Gonzalez, Laurence Reitman, and Tony Stagno, SUNY New Paltz, USA; Enrique Mandado, The Univ. of Vigo, Spain; Angel Salaverria, The Univ. of Pais Vasco, Spain, Spain</td>
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<td>Tools</td>
<td>From Course Management To Open Learning</td>
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<td>Sytille Hambach, Fraunhofer Inst. for Computer Graphics RA 1, Germany; Bodo Urban, Mario Aehnelt, and Jörn Wallstabe, Inst. for Computer Graphics RA 1, Germany</td>
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<td><strong>UNIV. MAIN BLDG., A4/Full: Other</strong></td>
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<td>Doug Williams, Univ. of Louisiana at Lafayette, USA; Liu Min, Univ. of Texas at Austin, USA; Denise Benton, Univ. of Louisiana at Lafayette, USA</td>
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<td>Tools</td>
<td>Quo vadis, School: Looking Back and Ahead or: How Can Schools Be Supported by Meaningful Online Services?</td>
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<td>Michael Drabe, Schule ins Netz e.V., Germany</td>
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<td><strong>PINNI BLDG., 0078/Full: Cases</strong></td>
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<td>Vesa Kortonen, Univ. of Tampere, Finland</td>
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<td>Learn</td>
<td>Technology impact on Roles of Instructor and Students - Case Studies</td>
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<td>Amy S. C. Le, California State Univ. San Bernardino, USA</td>
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<td><strong>UNIV. MAIN BLDG., Computer Room 4/Interactive Session</strong></td>
<td>Web Tools for Collaborative Project Learning</td>
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<td>Hannu Markkanen, Espoo-Vantaa Inst. of Technology, Finland; Domenico Ponta, DIBE-Univ. of Genova, Italy</td>
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**5:00-6:00 PM**

**SIG DISCUSSIONS**

See Bulletin Board at Registration Desk for sign-up and meeting rooms. Remember to sign up for SIG Discussions before Wednesday noon.

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**Wednesday, June 27 • Poster/Demonstrations**

**6-8 PM • Tampere Hall, Exhibition Hall, 1st Floor**

1. Tools for Authoring and Delivering Adaptive Instruction
   - James McCarthy, John Wayne, and John Morris, Sonalysts, Inc., USA

2. RS Vision
   - Petri Kajander, RS Vision Oy, Finland

3. School community
   - Herre Rost van Toningen, NIAM-TMS, Netherlands

4. New Advanced Virtual Learning Environment
   - Matti Vitkainen, EduSolutions Oy, Finland

5. Universitat Oberta de Catalunya
   - Francesc Vallverdu, Univ. Oberta de Catalunya, Spain

6. The Impact of Epistemological Beliefs on Middle School Students' Knowledge Acquisition and Problem Solving While Working in a Hypermedia-Supported Problem-based Learning Environment (HALE)
   - Doug Williams, Univ. of Louisiana at Lafayette, USA

7. Workload, Advantages, & Disadvantages of a Newly Developed Online Course
   - Susan Lyman, Doug Williams, and Lucy Begnaud, Univ. of Louisiana at Lafayette, USA

8. “To DIE for!” - Declarative, Interrogative and Experiential Learning of (Geo)Science on the Web
   - Patrick James, Univ. of Adelaide, Australia

9. A Direct Path to Online Success for both Students and Faculty
   - Nancy Omaha Boy, Rutgers Univ., USA

10. A Study of How Technology Influences Interior Design of Primary School Rong-Jiae Fang, National Kaohsuing Normal Univ., Taiwan; Sun-Der Su, National Ping-Tong Teachers’ College, Taiwan; Hung-Jen Yang, National Kaohsuing Normal Univ., Taiwan; Jui-Chen Yu, National Science & Technology Museum, Taiwan; Hung-Ming Jang, National Kaohsuing Normal Univ., Taiwan

11. A Study of Teaching Belief of Using Technology in Taiwan Primary School Rong-Jiae Fang and Hung-Jen Yang, National Kaohsuing Normal Univ., Taiwan, R.O.C.; Jui-Chen Yu, National Science & Technology Museum, Taiwan, R.O.C.; Sun-Der Su, National Ping-Tong Teachers’ College, Taiwan, R.O.C.

   - Albert K W Wu, Chinese Univ. of Hong Kong, China

13. A flexible distance teaching project in higher education: Campus Extens
   - Jesus Salinas, Barbara de Benito, and Adolfin Perez, Univ. of Balearic Islands, Spain

   - Yaeko Nakanishi, Lumi Tatsuta, Masayuki Ohnishi, and Atsuo Iuchi, Dokkyo Univ., Japan; Gichi Tomizawa, Science Univ. of Tokyo, Japan

15. Adaptive User Modeling Based on Linguistic Variable of Fuzzy Implication of a Telecommunications-Based Distance Education Program
   - Kaoru Iwata, National Kaohsuing Normal Univ., Taiwan; Tsuneo Tsurumi, National University of Defense and Technology, Japan; Giichi Tomizawa, Science Univ. of Tokyo, Japan; Yaeko Nakanishi, Lumi Tatsuta, Masayuki Ohnishi, and Atsuo Iuchi, Dokkyo Univ., Japan; Gichi Tomizawa, Science Univ. of Tokyo, Japan

16. Attitudes of King Saud University Faculty Toward Development and Implication of a Telecommunications-Based Distance Education Program as an Alternative to Conventional Teaching
   - Sara ALOraini, King Saud Univ., Saudi Arabia

17. Behind the MASK Project
   - Helen Carter, Univ. of Wollongong, CEDIR, Australia

18. Building Tissues: Computer-based experimentation in plant tissue design
   - Glynis Cron, Univ. of the Witwatersrand, South Africa; Tim House, South Africa

19. CITDPress Initiative in Scholarly Publishing with New Media: Can Academics play a role?
   - William Barek, CITD, Univ. of Toronto at Scarborough, Canada

20. Changing the school culture - the role of Internet-based simulation games in Estonian schools
   - Mart Laanpere, Tallinn Pedagogical Univ., Estonia; Anne Villems, Univ. of Tartu, Estonia

21. ChineseMorning.com
   - Myunghee Kang, Comliving.com, Korea

22. Computer Based Lab Methods in the Instruction of Probability and Statistics
   - Paul Cabillo, Acadia Univ., Canada; Patrick Farrell, Carleton Univ., Canada

(Poster/Demos continued)
Wednesday, June 27 • Poster/Demonstrations • 6-8 PM • Tampere Hall, Exhibition Hall, 1st Floor

23. Computer-mediated Communication in English Language Study
Irina Rozina, Rostov State Pedagogical Univ., Russia; Ronald Eckard, Western Kentucky Univ., USA

24. Design and Implementation of Intelligent Learning Content Advisor Based on BP-Anneal Algorithm
Ruimin Shen, Oijun Wang, and Jian Sun, Shanghai Jiao Tong Univ., China

25. Design and Implementation of a Multimedia Learning Environment for Spelling
Christina Metaxaki, Areli Baxevaridou, Eleni Ioannidou, and Ourania Monouri, Univ. of Thrace, Greece; Georgios Kouroupetrogliou, Univ. of Athens, Greece

26. Designing an Intelligent Math Tutor for At-Risk Students
Emily O’Connor, AlphaBeta Learning Inst., USA

Czarlle Dorota, Gal Chava, Leopold Ahova, and Epstein Alit, Open Univ. of Israel, Israel

28. Electronic literacies: Web-Mediated Language learning Project
Shu Ching Yang, National Sun Yat-sen Univ, ROC

29. Emerging Literacies: Beyond the Written Word
Stephanie Barish, Univ. of Southern California, USA

30. Englishtown: Innovation in online language learning
Christopher McCormick, Englishtown, USA

31. Expectations Of Technology For Learning Communities
Kaisa Still, SOLIDTECH, USA; Martha Russell, Clikin Research, Inc., USA

32. Factors Predicting Faculty Use of Television & the Internet in Delivering Distance Education
Jo Ann Coe, Univ. of Southern California, USA

33. Genesis of a CD-based Authorware application: Lessons learned from six years of design and development
Patricia Backer, San Jose State Univ., USA

34. Hotel Simulation - a 2nd year student project
Henric Bundy, Robert Johansson, and Bengt Lennartsson, Linkoping Univ., Sweden

35. Improving Conference Design Through Better Use of Technology
Allan Ellis, Southern Cross Univ., Australia; Roger Debreceny, Nanyang Technological Univ.

36. Information and Knowledge Society: An interdisciplinary and International PhD Programme through Internet
Teresa Sancho and Eduard Albar, UOC, Spain

37. Interdisciplinary learning process with ISDN-videoconference: “The production of Wine”
Jukka Maki, The Ziridis Schools, Greece

38. KnixSOM method for information resource management
Tomi Suuronen, Harri Airaksinen, and Matti Hämäläinen, Espoo-Vantaa Inst. of Technology, Finland

39. Launching WBT Service for Librarians
Tomo'o Inoue and Haruki Ueno, National Inst. of Informatics, Japan

40. Learner Differences and Authoring Concepts: Non-interactive and Interactive Multimedia/Hypermedia Products
W. Michael Reed and P. David Tarcy, New York Univ., USA

41. Learner Led Learning: The case of Business-to-Business Marketing
Sicco Santema, and Ralph Genang, Delft Univ. of Technology, The Netherlands

42. Learning from Discussions: Strategies for Listening and Speaking: A computer-based learning environment for English language learners
Lisa Larson, Teachers College Columbia Univ., USA

43. Learning with Multimedia Technologies: Some examples
Nicoletta Sala, Univ. of Italian Switzerland, Switzerland

44. Lesson Plans on the Internet: A Critical Appraisal
Robert Hanny, Robert Hannafin, and Ella Donaldson, College of William and Mary, USA

45. Multimedia Guide to Fractal Geometry in Progress
Vladimir Shykh, Belarusian State Pedagogical Univ., Belarus

46. OMETZ: Virtual Learning Civil Community
Boo Ki Kimchi and Irit Lifshitz, Center for Educational Technology(CET), Israel

47. Perspectives on Web-based Historical Audio
Dean Rehberger, Michigan State Univ., USA; Jerry Goldman, Northwestern Univ., USA; Steve Cohen, Tufts Univ., USA; Joyce Grant, Michigan State Univ., USA

48. Student individual differences, reactions, and learning in a molecular biochemistry course using web technology
Holly Traver and Joyce Diwan, Rensselaer Polytechnic Inst., USA

49. Systematic Planning for Online Teaching to Support Faculty's New Role
Rowena Santiago, California State Univ. San Bernardino, USA

50. The Classroom and Distance Education; Issues of Quality and Equity
Peter West, Northern Illinois Univ., USA

51. The Computer-Mediated Professional Discussions in Teacher Settings
Kati Mäkitalo, Marja Kankaanranta, Päivi Kupila, Pirjo-Liisa Pokonen, and Marja-Kristiina Larkkanen, Univ. of Jyväskylä, Finland

52. The Internet: Possibilities of Interaction in the Constructivist Perspective
Valdemarina Souza and Helena Cortes, PUCRS, Brazil

53. The Use of Hypermedia and Multimedia in course related projects at the University of Maine, USA
Andrei Strukov, The University of Maine, USA

54. The flexible learning model at LITU
Ethel Dahlgren, Umea Univ., Sweden

55. Use of Mobile Computers for Teaching and Learning
Dorene Yeo, Ngee Ann Polytechnic, Rep. Of Singapore

56. Visual Thinking in Service to Crafting a Teacher
Olga Kritskaya, Michigan State Univ., USA

57. Web Usability Criteria: The SCANMIC Model
Shahizan Hassan and Feng Li, Univ. of Strathclyde, Scotland

58. Webeering a Brazilian University: A successful case of change
Pericles Gomes and Sonia Vermelho, Pontificil Univ. Catolica do Parana, Brazil

59. Working towards a Virtual University
Marialice Moraes, Leslie Paas, Dulce Márcia Cruz, and Ricardo Miranda Barcia, Federal Univ. of Santa Catarina - UFSC, Brazil

60. ePolytechnic - eHAMK
Kaisa Rissanen, Leena Vainio, Jusri de Vries, Pertti Puusaari, and Jorma Saarinen, Hame Polytechnic, Finland
Beverage Break: 9:30-10:00 AM

10:00-11:00 AM

UNIV. MAIN BLDG., A1/Brief: NewDev
Learn Competencies for Online Teaching & Training
J. Michael Spector, Syracuse Univ./Univ. of Bergen, USA; Radha Ganesan, Syracuse Univ., USA; Peter Goodyear, Lancaster Univ., UK; Ileana de la Teja, Tele-universite, Canada
Learn Linking Teaching Styles and Learning Styles with Compatible Pedagogy: A Guide for Online Instruction
Karen Hallett and Chris Essex, Indiana Univ., USA
Learn Insuring Quality for Online Instructors: The Walden Certified Online Instructor (COI) Program
Marilyn Simon, Walden Univ., USA

UNIV. MAIN BLDG., A3/Brief: NewDev
Tools A Review of Web-based Learning Systems for Programming
Fadi Deek and Ki-wang Ho, New Jersey Inst. of Technology, USA; Haider Ramadhan, Sultan Qaboos Univ., Oman
Tools Accreditation of Prior Learning through Internet Technology
Bruno Emans, Univ. of Amsterdam, The Netherlands; Esther Oprins, CINOP, The Netherlands; Jocelyn Sandberg, Univ. of Amsterdam, The Netherlands
Tools Supporting Developers by Building-Block Methods: The Case of the Templates
Eddy Boot, TNO Human Factors, The Netherlands

UNIV. MAIN BLDG., A4/Brief: NewDev
Maria Lorna Kunnath, Univ. of Central Florida, USA
Julie Voce and Marie-Josée Hamel, UMIST, UK
Tools Personal Digital Assistants in the classroom: An experience
Patricio Rodriguez, Miguel Nussbaum, Gustavo Zurita, Ricardo Rosas, and Francisca Lagos, Catholic Univ., Chile

PINNI BLDG., 0081/Brief: NewDev
Cases A Requirements Model for a Quality of Service-aware Multimedia Lecture on Demand System
Earl F. Ecklund, Univ. - Center for Technology at Kjeller, Norway; Vera H. Goebel, Univ. of Oslo, Norway; Jan Oystein Aagard, SINTEF Telecom and Informatics, Norway; Edwin Bach-Gansmo, Faculty of Medicine, Univ. of Oslo, Norway; Thomas Plagemann, Univ. - Center for Technology at Kjeller, Norway
HCl On Effects of Information Technology on Learning
Zoran Putnik, Univ. of Novi Sad, Yugoslavia
HCl When Good Courses Go Bad: The Anguish of Online Dysfunctionality
Dianne Conrad, Univ. of Alberta, Canada

UNIV. MAIN BLDG., A2B/Brief: NewDev
Tools Novel Client Representations for the Collaborative Virtual Learning Environment STeam
Projectsgruppe S-Team, Univ. of Paderborn, Germany
Tools The Advanced Distributed Learning (ADL) Initiative G.A. Redding, Inst. for Defense Analyses, USA
Tools The SALSA Animation System: Simply Generating Java Applets to Learn with Basic Animations
Andreas Brenncke, Univ. of Paderborn, Germany; Jochem Groening, Manfred Hulmann, and Michael Wegener, Univ. of Paderborn, Germany

PINNI BLDG., PAAVO KOLI/Brief: NewDev
Learn Developing New Roles in Teaching and Learning through Electronic Portfolios
Andrea Bartlett, Univ. of Hawaii at Manoa, USA
Tools Emerging Issues in Information Economy & Electronic Commerce: A Strategic Analysis
Nitya L. Karmakar, Univ. of Western Sydney, Australia
Cases Student Directed Generation of Word Clusters with “Hikari”: Utilizing WordNet in an Intelligent Vocabulary Tutoring System for Adults Learning English on the Web
Juan Leon, Kyoto Univ., Japan

UNIV. MAIN BLDG., D11/Brief: NewDev
Cases A North American Nationally Distributed Multimedia Course
Janice Fletcher, Laurel Branen, and Erik Anderson, Univ. of Idaho, USA
Cases Developing More Effective Access to Higher Education for People with Disabilities: A Case Study in the Design of Accessible Online Courseware
Elaine Pearson, Univ. of Teesside, UK; Tony Koppi, Univ. of New South Wales, Australia
Cases Using Concept Mapping as an Interactive Learning Tool in Web-based Distance Education
Ann Shortridge, Univ. of Arkansas-Fayetteville, USA

UNIV. MAIN BLDG., TYT Auditorium/Full: SysRes
Learn Electronic Portfolios in Tenure and Promotion Decisions: Making a Virtual Case
Kristine Blair, Bowling Green State Univ., USA
Learn InTime (Integrating Technology Into the Methods of Education)
William Callahan, Univ. of Northern Iowa, USA

UNIV. MAIN BLDG., A2/A Full: SysRes
Infra Learning Resource Catalogue Design of the UNIVERSAL Brokerage Platform
Gorazd Vrabic, Inst. Jozef Stefan, Slovenia; Bernd Simon, Vienna Univ. of Economics and Business Administration, Austria
Infra Online education practice: A dual track balancing act
Mari Peti, Teknikon Natal, South Africa

UNIV. MAIN BLDG., D10 B/Brief: NewDev
Cases Net-based Learning
Rititta Rinta-Filippula and Mick Draper, CERN, Switzerland
Cases Promoting best practice in information and computer science education through the UK national subject centre
Sylvia Alexander, Univ. of Ulster, Northern Ireland; Tom Boyle, Univ. of North London, England; Mike Joy, Univ. of Warwick, England
Cases UniWap project [http://ok.helsinki.fi/sivut/uniwap.html] This project deals with the WAP technology to be tested, piloted and completed in order to facilitate teaching and learning in the university
Kari Tuononen, Univ. of Helsinki, Finland
### Concurrent Sessions – Thursday, June 28

**11:15 AM-12:15 PM**

**UNIV. MAIN BLDG., D10 A/Panel (1 hour)**

Telematics Simulation: Recent Developments & Issues
- Janet Sutherland, Univ. Bremen, Germany; David Crookall, Univ. de Nice - Sophia Antipolis, France; Konrad Morgan, Univ. i Bergen, Norway; Amparo Garcia Carbonell, Univ. Politècnica de Valencia, Spain; Knut Ekker, Høgskolen i Nord-Trøndelag, Norway

**PUNNI BLDG., PAAVO KOLI/Full: SysRes**

Tools
- EVA: Collaborative Distributed Learning Environment Based in Agents
  - Leonid Shremetov and Rolando Quintero, National Technical Univ., Mexico
- Reflective Learning with Agent Simulations in Emergency Team Training
  - Michael Dobson, Michael Pengersly, and Julie-Ann Sime, Lancaster Univ, UK

**UNIV. MAIN BLDG., D11/Full: CES**

Learn
- Constructivist Design of Technology to Scaffold Student Learning of Scientific Phenomena and Principles
  - Jenny P. Suits, McNeese State Univ., USA
- Motivational approach of project based teaching
  - Nathalie Huet, Christian Escribe, Claudette Marin, and Hadji Batatia, Univ. of Toulouse Le Mirail, France

**UNIV. MAIN BLDG., TYT Auditorium/Full: CES**

Learn
- Gender and Learning Strategies within Cyberspace
  - Insook Lee, Sejong Univ., R. of Korea
- Model of Utilizing ICT in Teaching Information and Communication Ethics
  - Chul-Hyun Lee, Seo-Bum Shin Shin, and Soon-Gyu Jang, Tae-Wuk Lee, Korea National Univ. of Education, Korea

**UNIV. MAIN BLDG., A1/Full: CES**

HCI
- Are Experts Able to Predict Learner Problems during Usability Evaluations?
  - Maia Dimitrova, Helen Sharp, and Stephanie Wilson, City Univ. London, UK

HCl
- Communication Styles of Mentoring in an Electronic Forum
  - Cheng-Chih Wu, Chin-Yuan Lai, and Greg. C. Lee, National Taiwan Normal Univ., Taiwan

**UNIV. MAIN BLDG., D10 B/Full: CES**

Cases
- An ICT based project for the Facilitation of Equality, Understanding and Tolerance Among Israeli Jewish and Bedouin High School Students
  - Yaacov Yablon and Yaacov J Katz, Bar-Ilan Univ., Israel
- Satellite Home Tutorials vs. Satellite Classroom Tutorials
  - Ruth Beyth-Marom, Edna Yafe, Meira Pihman, and Hamutal Razi Harpaz, The Open Univ. of Israel, Israel

**PUNNI BLDG., 0081/Full: CES**

Cases
- Middle School Students as Multimedia Designers: A look at their cognitive skills development
  - Min Liu and Yu-jing He, Univ. of Texas- Austin, USA
- Challenges of Designing Communal Web-based Learning Environments
  - Sanna Vahthouou and Toemu Masalin, Univ. of Helsinki, Finland

**UNIV. MAIN BLDG., A2B/Full: CES**

Cases
- Developing a questionnaire to measure the effectiveness of computers in teaching
  - Ananda Mitra, Wake Forest Univ., USA
- Intercultural Foreign Language Studies in the Russian on the Net Learning Environment
  - Nina Forsblom, Tampere Univ. of Technology, Finland

**TAMPERE HALL, STUDIO/Full: SysRes**

Tools
- Building A Virtual Learning Community of Distributed Knowledge on Web for University Students, ROC
  - Chi-Cheng Chang, National Taiwan Univ. of Technology, ROC
- MathCAL and its Database Design
  - Janet Met-Chuen Lin, Long-Huai Huang, Kevin K. Huang, and Jie-Yong Jiang, National Taiwan Univ., Taiwan

**UNIV. MAIN BLDG., A2A/Full: SysRes**

Tools
- Cooperative Monitoring Agent using Mobile Agent
  - Chul-Hwan Lee, Inchon National Univ. of Education, Korea; Sun-Gwan Han, Inchon National Univ. of Education, Korea
- The Fluid Reading Primer: Animated decoding support for emergent readers
  - Polle Zellweger and Jock Mackinlay, Aarhus Univ., Denmark

### Lunch Break: 12:15-1:30 PM

**1:30-2:30 PM**

**UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)**

Relationships Among Learner Characteristics, Course Design Factors, and Student Perceptions of Learning Online
- Karen Swan, Univ. at Albany Graduate School of Education; Director of the Learning Technologies Laboratory and the Summer Technology Institute, USA

**PUNNI BLDG., PAAVO KOLI/Brief: NewDev**

Cases
- Authoring tools for construction of personally meaningful artefacts
  - Rob Wright, Barry Harper, and John Hedberg, Univ. of Wollongong, Australia
- Improving Motivation by Flexible Course Organization: Case Study on Telecommunication Education
  - Joao-Batista Destro-Filho, State Univ. of Campinas, Brazil; Jose-Paulo Broda-Destro, OasiSTEC Foundation, Brazil
- New Designs for Web Based Learning Environments
  - Barry Harper, Univ. of Wollongong, Australia; John O’Donoghue, Univ. of Wolverhampton, UK; Ron Oliver, Edith Cowan Univ., Australia; Lori Lockyer, Univ. of Wollongong, Australia

**UNIV. MAIN BLDG., D11/Brief: NewDev**

Learn
- The Continuous Education Solution for a Country Wide Telecommunication Company
  - Marcelo Leifheit, Juarez Sagebin, Daniel Fink, Candida Moraes, and Alexandre Sonntag, CRT - Brasil Telecom, Brazil
- Use of Video Mediated Instruction in Teaching American Heart Association Emergency Cardiac Care Training Courses
  - Darrell Delmartino, Univ. of Houston, USA
- Virtual Planetarium
  - Igor Nikitin, GMD - National Research Center for Information Technology, Germany; Stanislav Klimenko, ICCPT - Inst. of Computing for Physics and Telecommunications Education, Russia

**UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev**

Learn
- Don’t give up! The online course will get better. How to minimize critical success factors for online courses
  - Marilene Garcia, Univ. Anhembi Morumbi - Univ. de Franca, Brazil
- Professional Second Skin
  - Valdemarina Bidone de Azevedo Souza-, Claudia Bahia-Carrion, and Celina Verran Faillace, Pontificia Univ. Catolica do Rio Grande do Sul - PUCRS, Brazil
- Reinventing the TV and the video in school: Report of an workshop for training teachers
  - Luciana Rocha de Dalla Valle, Brazil; Dulce Marcia Cruz, Univ. Federal de Santa Catarina – Univ. Regional de Blumenau, Brazil
** Concurrent Sessions – Thursday, June 28 **

**UNIV. MAIN BLDG., A2A/Brief: NewDev**

**HCI**

Concept Maps: E - Learning Environment  
Nurit Natan and Ilana Barkai, Kaye College of Education, Israel

**Learn**

Education Administrator Technological Competencies and Training  
L. Dean Webb, Arizona State Univ., USA; Roger Yohe, Maricopa Community Colleges, USA

**HCl**

How Faculty Develop and Deliver Online Courses: A Task Analysis  
Anne Archambault and John Nesbitt, Technical Univ. of British Columbia, Canada; Louise Allen, Louise Allen & Associates, Canada

**UNIV. MAIN BLDG., D10 B/Brief: NewDev**

Cases Enhancing Student Performance on State Mathematics Proficiency Tests: Using Multimedia Collaborative Web-based Lesson Plans and Practice Tests  
Lih-Ching Chen Wang and Holly Brinda, Cleveland State Univ.

Cases In search of a Web Course Management Tool: Selection and Evaluation of web course management tool  
Radha Ganesan, Syracuse Univ., USA; Michael Spector, IDDE, Syracuse Univ.; IFI, Univ. of Bergen, USA

Cases The Design of an Intelligent Automatic Learning Assistant for the Promotion of Learner Independence  
Ray Jones, John Cook, and Fiona French, Univ. of North London, UK

**PINNI BLDG., 0081/Brief: NewDev**

Cases A snapshot of technology in US Schools: Where are we today?  
Jennifer Richardson, Doug Levin, and Vicki Lundmark, American Inst. for Research, USA

Cases A system for Creating and Offering Customisable Training Material Applied to Digital Printing - Project description  
Helene Juhatola and Asta Back, VTT, Finland

Cases Multimedia and Telelearning at the Grammer School of the Pedagogic High School of the Archdiocese of Vienna  
Wolfgang Seper, Grammar School at the Pedagogic High School, Austria

**UNIV. MAIN BLDG., A2B/Brief: NewDev**

Cases Developing an online ESL course using Available Instructional Materials and Formative Analysis  
Robert Berman, Univ. of Alberta, Canada

Cases Innovative use of Bulletin Boards in undergraduate and masters level online courses  
Stuart Young, UNITEC Inst. of Technology, New Zealand

**Learn**

the Web in the Eyes of the Learner  
Quynh Le and Thao Le, Univ. of Tasmania, Australia

**TAMPERE HALL, STUDIO/Brief: NewDev**

**Infra**

Education Support Paradigm as Knowledge Management  
Toyohide Watanabe, Nagoya Univ., Japan

**Infra**

Collaborative Adaptive Instructional Planning: Problems, Issues and Concerns  
Albert K W Wu, Chinese Univ. of Hong Kong, China

**Infra**

Agent-based workflow systems in electronic distance education  
Nomusa Dlodlo, Joseph Bhekizwe Dlodlo, and Bighton Siyanda Masije, National Univ. of Science and Technology, Zimbabwe

**UNIV. MAIN BLDG., A1/Brief: NewDev**

**Tools**

Coimbra, a New Authoring Tool for Electronic Textbooks  
Edgar Weippl, Software Competence Center Hagenberg, Austria; Hans Lohninger, Vienna Univ. of Technology, Austria

Cases Distributed Cognitive Tools to Improve High order Cognitive Skills such as: Argumentation, negotiation and restructuring of knowledge  
Max Giardina and Laila Cubenaissia, Univ. of Montreal, Canada

Cases Using metadata for re-using material and providing user support tools  
Allard Strijker, Univ. of Twente, The Netherlands

**UNIV. MAIN BLDG., A3/Brief: NewDev**

**Tools**

Education and Information of Architects - New Media for Innovative Solar Architecture  
Stephan Benkert, Joachim Clemens, and Frank-Dietrich Heidt, Univ. of Siegen, Germany

Tools Using Two-Way Audio Video Desktop Technology to Support Educators Seeking Educational Diagnostician Certification in a Distance Education Program  
Jane Pemberton, Tanida Tyler-Wood, Maria Victoria Perez-Cereijo, Joyce Rademacher, and Pam Tipton, Univ. of North Texas, USA

**Tools**

xClass - Extensible Virtual Classroom - Mobile communication possibilities in teaching  
Harri Ketarni, Jari Multisilta, Jari Lahti, and Harri Keiho, Pori School of Technology and Economics, Finland

**UNIV. MAIN BLDG., A4/Brief: NewDev**

Learn Developing Online E-Commerce Business Plans to Provide Students with Context and Job Opportunities  
Joe Lucca, Edith Cowan Univ., Australia; Catherine McLoughlin, Univ. of New England, Australia

Tools Distributed Learning: Intranet and Internet Applications  
Elinor Greene, TransTech Interactive Training, USA

Learn Facing the Vast Information Network: Finnish Primary School Student Teachers reflect on their Relationship with the Internet  
Ilta-Kanerva Kankaanrinta, Univ. of Helsinki, Finland

**PINNI BLDG., 0078/Brief: NewDev**

**Learn**

Implementing a Rubric for Appropriate Application of Multimedia in Online Courses: A Case Study  
Mary Wall and Joyce Grohman, Atlantic Cape Community College

Learn The New Digital Civilization: The Best of Times, the Worst of Times  
Melissa Roberts Becker and Donna Wood, Northeastern State Univ., USA

Learn The Role of Pedagogy in the Use of Networked Learning Environments  
Chrystallia Mouza, Teachers College, Columbia Univ., USA; Benjamin Bell, Lockheed Martin Advanced Technology Laboratories, USA

**UNIV. MAIN BLDG., Computer Room 4/Interactive Session**

Exploring the use of electronic portfolios in international contexts, Finland  
Marja Kankaanranta, Univ. of Jyväskylä, Institute for Educational Research, Finland

Beverage Break: 2:30-2:45 PM

2:45-3:45 PM

**UNIV. MAIN BLDG., D10 A/Panel (1 hour)**

Simulations for Social Reasoning: Helping Students Understand the Complexity Behind Social Decisions  
Steve Cohen and Kent Portney, Tufts Univ, USA; Jerry Goldman, Northwestern Univ., USA; Dean Rehberger, Michigan State Univ., USA

**PINNI BLDG., PAAVO KOLI/Full: CES**

Learn Virtual Career Guidance Provision in Education  
George Papas, Pedagogical Inst., Greece; Petros Stefanitas, National Technical Univ. of Athens, Greece

**UNIV. MAIN BLDG., D11/Full: CES**

Learn Gender and Online Discussions: Similarities or Differences in Participation?  
Gayle V Davidson-Shivers, Samantha Morris, and Tuangrat Sriswongkol, Univ. of South Alabama, USA

Learn Learning Style Theory and Computer Mediated Communication  
Hilary Atkins and David Moore, Leeds Metropolitan Univ., England; Dave Hobbs, Bradford Univ., England; Simon Sharpe, Leeds Metropolitan Univ., England

**UNIV. MAIN BLDG., TYT Auditorium/Full: CES**

Learn A Real Time text to Emotion Engine for Expressive Internet Communications  
Anthony Boucouvalas and Hasan Chowdhury, Bournemouth Univ., DEC., UK

**UNIV. MAIN BLDG., A2A/Full: SysRes**

Infra  
Design and Implementation of a LoD System for Multimedia-Supported Learning for Medical Students  
Chuanbao Wang, Denise Ecklund, and Earl Ecklund, UniK - Center for Technology at Kjeller, Norway; Vera Goebel, Univ. of Oslo, Norway; Thomas Plagemann, UniK - Center for Technology at Kjeller, Norway

Infra  
Middleware to Support an Asynchronous Internet Course  
Shunichi Toida, Chris Wild, M. Zubair, Li Li, and Chuoxiang Xu, Old Dominion Univ., USA
Concurrent Sessions – Thursday, June 28

**UNIV. MAIN BLDG., D10 B/Full: CES**

**Learn**
Useability and Learning in Online Environments
Roxi Sims, Southern Cross Univ., Australia

**Cases**
Rethinking Education: From Teacher led to Learner Led Learning
Ralph Genang, Ralph Genang and Sicco Santema, Delft Univ. of Technology, The Netherlands

**PINNI BLDG., 0081/Full: CES**

**Cases**
Comparing the Impact of Two Types of Knowledge Organizers on Learning Complex Conceptual Material in a Second Year Course on German Thought and Culture
Paul Malone and Vivian Rozner-Merrill, Univ. of Waterloo, Canada

**UNIV. MAIN BLDG., A2B/Full: Other**

**Cases**
Improving Access Using Simulations of Community Resources
Clark Germann, Jane Kaufman Broda, Jeffrey Broda, and Scott Heuck, Metropolitan College of Denver, USA

**UNIV. MAIN BLDG., A1/Full: SysRes**

**Learn**
A Survey of Current Computer Skill Standards and Implications for Teacher Education
Valerie Irvine and T. Craig Montgomerie, Univ. of Alberta, Canada

**Tools**
Using "WoundCare" to Learn
Glenn Ross, Charles Sturt Univ., Australia; Juhani Tuovinen, Monash Univ., Australia

**UNIV. MAIN BLDG., A3/Full: SysRes**

**Tools**
A Framework for Microworld-style Construction Kits
Adrienne H. Slaughter, Stanford Univ., USA; Carol Strohecker, MERL, USA

**Tools**
Analysing User Actions in a Smalltalk Programming Environment
Malcolm Macgregor, Pete Thomas, and Carina Paine, Open Univ., UK

**UNIV. MAIN BLDG., A4/Full: SysRes**

**Tools**
Errors as learning opportunities in foreign language learning: The computer as an intelligent corrector
Bert Wylin and Piet Desmet, K.U.Leuven Campus Kortrijk, Belgium

**Tools**
New Concepts for the Usage of Groupware in Software Engineering Education
Stefan Werner, Axel Hunger, and Frank Schwarz, Gerhard Mercator Univ. of Duisburg, Germany

**PINNI BLDG., 0078/Full: SysRes**

**Learn**
Combining Different Aims in a Portfolio System: A Web-based Portfolio and the Various Ways in Which It Can Serve the Student
Magda Ritzen, Hogeschool van Utrecht/Cetis, The Netherlands; Jacqueline Kosters, Amsterdam Faculty of Education, The Netherlands

**Learn**
Facilitating the mental integration of multiple sources of information in multimedia learning environments
Rolf Ploetzner, Daniel Bodemer, and Inge Feuerlein, Univ. of Freiburg, Germany

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**UNIV. MAIN BLDG., D10 B/Brief: Demo**

**Learn**
Supplemental Course Delivery via the World Wide Web: An Introduction to Design
R. Brian Stone, The Ohio State Univ., USA

**Learn**
The Educational Process in the Emerging Information Society: Conditions for the Reversal of the Linear Model of Education and the Development of an Open Type Hybrid Learning Environment
Panagiotis Anastasaides and Simos Retalis, Univ. of Cyprus, Cyprus

**PINNI BLDG., PAAVO KOLI/Brief: NewDev**

**Tools**
Computer-based Tools for the Development and Investigation of Mental Model Reasoning about Causal Systems
Danielle Kaplan and John Black, Teachers College, Columbia Univ., USA

**Cases**
Learning About Multimedia Design Through Real-Life Cases
Sue Bennett, Barry Harper, and John Hedberg, Univ. of Wollongong, Australia

**Cases**
Supporting Social Interactions in Distance Education with a 3D Virtual Learning Space
Daniel Skog, Ulf Hedestig, and Victor Kaptelinin, Umea Univ., Sweden

**UNIV. MAIN BLDG., D11/Brief: NewDev**

**Learn**
Development of a CD-ROM based in-service teacher training program for ICT instruction
Katsuzaki Suzuki, Hwato Prefectural Univ., Japan; Shigeru Hirasawa, Bunkyo Univ., Japan

**Learn**
Some “Do’s and Don’ts” in the Delivery of Distance/Online Education
A. Richard Tarver, Lissa Pollacia, and Thomas Hanson, Northwestern State Univ., USA; Claude Simpson, Texas A & M Univ. at Kingsville, USA

**Learn**
Virtual Communities: A New Distance Learning Application for a Telecommunication Company
Candida Moraes, Daniel Fink, Juarez Sagebin, Alexandre Sonntag, and Paulo Mendel, CBT Brasil Telecom, Brazil

**UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev**

**Tools**
A Systematic Approach for Multimedia Development with the Six-Leaves-Model
Gerard Veldhuis and Yvonne Barnard, TNO Human Factors, The Netherlands; Van Rooy, Staff COIL, RLNA, The Netherlands

**Cases**
Discotech-Bimbotech. A case study: Spontaneous Interaction between Kindergarten Children and Computer
Isabella Rega, Sara Petazzi, and Aldo Torrebruno, Politecnico di Milano, Italy

**Tools**
Problem-based learning with multimedia interactive cases in nursing and orthopedaogy
Nicole Vlianee and Marc Verreyvse, Impulcentre of Educational Innovation KATHO-KULAK, Belgium

**UNIV. MAIN BLDG., A2A/Full: SysRes**

**Learn**
Myths and Realities of Using WBT to Deliver Training Worldwide
Margaret Driscoll, IBM Mindspan Solutions, USA

**Tools**
The Development of a Hypermedia Language Learning Environment For Teaching Academic English
Jin Chen, Alexandra Critea, Toshio Okamoto, and Hisayoshi Inoue, The Univ. of Electro-communications, Japan

**UNIV. MAIN BLDG., D10 B/Brief: NewDev**

**Cases**
Analytic Studies of Bulletin Board for Cross Cultural Communication
Yaeko Nakanih, Lumit Tatsuta, Masayuko and Aisuko Iuchi, Dokkyo Univ., Japan; Giichi Tomizawa, Science Univ. of Tokyo, Japan

**Cases**
Designing a Virtual Laboratory for an Online Course in Microelectronics
Gabriel Dima, Razvan Matei, Ciprian Cudalbu, and Marcel Profirescu, Univ. Politehnica of Bucharest, Romania

**Cases**
Project COMPETE (Competency-Based Continuing Education for Teachers Utilizing Distance Education Technologies and Materials)
Erlinda Peñanco, Eligio Barsaga, and Maryam Jameelah Mangorangca, SEAMEO INNOTECH, Philippines

**PINNI BLDG., 0081/Brief: NewDev**

**Infra**
Developing Generic Skills through Online Courses
Joe Luca and Ron Oliver, Edith Cowan Univ., Australia

**Tools**
Generating Personalized Education Documents Using a Presentation Planner
Paul Libbrecht, Erica Melis, and Carsten Ullrich, DFKI Saarbruecken, Germany

**Infra**
Implementing Learning Object Metadata using RDF
Walid Kekhia, Supelec, France; Yolaine Bourda, Supelec, France

**UNIV. MAIN BLDG., A2B/Brief: Other**

**Cases**
Developing Infrastructure in Developing Countries: A Role for Faith-based Organizations in Technology Transfer in Kenya
Pamela Hassebroek, Georgia Inst. of Technology, USA

**Cases**
Planning A Technology-based Learning Infrastructure for Recurrent Education of Police in Taiwan
Szuclhier S. Wu, Central Police Univ., Taiwan; Hueychig J. Jih, Tamkang Univ., Taiwan

**Cases**
Training, Support, Practices and Needs of the Distance Educator
Susan Lyman, Doug Williams, Lucy Bignaud, and Renee LeJeune, Univ. of Louisiana at Lafayette, USA

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4:00-5:00 PM
Concurrent Sessions

TAMPERE HALL, STUDIO/Brief: Other
Learn Cyber-based Service Learning: Community Projects in Africa
Peggy James, Univ. of Wisconsin-Parkside, USA

Learn Effective Instructional Technology Training and Support for Faculty
Michael Rodgers and David Starrett, Southeast Missouri State Univ.

Learn Teacher Guidance to Digital Lectures
Manfred Schertler and Freimut Bodendorf, Univ. of Erlangen-Nuremberg, Germany

UNIV. MAIN BLDG., A1/Brief: NewDev
Tools An Online Simulated Golf League Multimedia Environment: A Case Study from a Postgraduate Computing Module
Peter K. Oriogun, Wanda K. Roberts, Mustapha Zaouini, and Nicholas J. Swann, Univ. of North London, England

Cases Gender Differences in Online Learning
Stuart Young and Mae McSparran, UNITEC Inst. of Technology, New Zealand

Tools Helping Authors to be More Explicit
Sadz Tazi, Univ. Toulouse 1, France

UNIV. MAIN BLDG., A3/Brief: NewDev
HCl A Computer Tool for Writing Japanese as a Foreign Language
Chris House, Kyo Gakuin Univ., Japan

Cases Adopting an Instructional Pedagogy for Constructive Online Learning
Stylianos Hatzipanagos, Chris Sadler, Mark Woodman, and Maya Milankovic-Atkinson, Middlesex Univ., UK

HCl Children as Design Partners: A Qualitative Study of Process and Products
Gail Fitzgerald, Hsinyi Peng, and Ran-Young Hong, Univ. of Missouri-Columbia, USA

UNIV. MAIN BLDG., A4/Brief: NewDev
Tools A tool for practicing formal proofs
David Abraham, Liz Crawford, Leanna Lesta, Agathe Merceron, and Kalina Yacef, Univ. of Sydney, Australia

Tools Designing Simulator for Construction of a Virtual Computer System Using Arbitrary Levels of Abstraction
Tomohiro Nishida, Osaka Gakuin Univ., Japan; Junichi Yahara, Osaka Univ., Japan; Kazutoshi Fujikawa, Hayato Ishibashi, and Kota Abe, Osaka City Univ., Japan

Tools X-Quest: An Open Tool to Support Evaluation in Distance Learning
Juan C. Burguillo, Univ. de Vigo, Spain; Jose V. Benlloch, Univ. Politècnica de València, Spain; Juan M. Santos and Daniel A. Rodriguez, Univ. de Vigo, Spain; Felix Buendia, Univ. Politècnica de València, Spain

PINNI BLDG., 0078/Brief: NewDev
Learn Changing Role of Teachers and Learners in Web-based Education
Pitmariner R. Polsani, Univ. of Arizona, USA

Learn Some Observations on Student Use of Electronic Communications in Second-Year Biology Courses
Michael Collins, and Michael Barbour, Memorial Univ. of Newfoundland, Canada

Learn A Collaborative Environment for Visual Representation of the Knowledge on the Web - VEDA
David Prata and Fabio Paraguacu, Univ. Federal de Alagoas, Brazil

UNIV. MAIN BLDG., Computer Room 4/Interactive Session
Using Adobe Acrobat as the ideal hypermedia format for Electronic Portfolio Development
Helen Barrett, Univ. of Alaska Anchorage, USA

Thursday, June 28 • Poster/Demonstrations
6-8 PM • Tampere Hall, Exhibition Hall, 1st Floor

1. Tools for Authoring and Delivering Adaptive Instruction
   James McCarthy, John Wayne, and John Morris, Sonalysts, Inc., USA

2. RS Vision
   Petri Kajander, RS Vision Oy, Finland

3. School community
   Herre Rost von Tonningen, NIAM-TMS, Netherlands

4. New Advanced Virtual Learning Environment
   Matti Viltikainen, Edusolutions Oy, Finland

5. Universitat Oberta de Catalunya
   Francesc Vallverdu, Univ. Oberta de Catalunya, Spain

6. Delivering E-Learning via a Combination of Web and WAP Technologies
   Geoff Ring, ICUS, Singapore

7. A Scripting Language for Multi-Character Presentation Agent based on Multimodal Presentation Mark-up Language
   He Binda, Santi Saever, and Mitsuji Ishizu, The Univ. of Tokyo, Japan

8. A multimedia gate to Museum of Astronomy
   Anna Lina Auricchio, Astronomical Observatory of Capodimonte, Italy; Enrica Stendardo, Il Univ. of Naples - Faculty of Letters, Italy

9. A prototype for optimizing Web browsing in wireless environment
   Cosmina Ivan, Technical Univ. of Cluj, Romania

10. AIOLOS: A Tutoring System for Waste Management
    Spores Simrakessas, Maria Rigou, and Athanasios Tsakalidis, Computer Tech. Inst., Greece

    Michael Szabo and Daylene Lauman, Univ. of Alberta, Canada

12. Campus Neo - A Bothnian Virtual Campus
    Tor Söderström and Käre Synnes, Centre for Distance-spanning Learning, Sweden; Timo Parkka, Learning and Research Services, Finland

13. Childrens' Attitude toward Internet
    Takashi Ikuta, Nilgata Univ., Japan; Toshiyuki Kihrara, Osaka City Univ., Japan

14. Collaborative Learning: A Web-based Case Study
    Quynh Le and Thao Le, Univ. of Tasmania, Australia

15. Collaborative Technology Exploration: Bridges Between University and K-12 Education
    Carol Wolfe and Jefferey Ashley, Saginaw Valley State Univ., USA; Nancy Elliott, Ulyb Public Schools, USA; Ericka Taylor, Saginaw Public Schools, USA; Janice Wolff, Saginaw Valley State Univ., USA

16. Computer-Supported Collaborative Work (CSCW)
    Gerald Edmonds, Denis Eseryl, Radha Ganesan, and Michael Specter, Syracuse Univ., USA

17. Coordination Role in Evolution Systems
    Angela Carrillo, Univ. de los Andes, Colombia

18. Coupling IP-vidoeconference with web-based learning environment
    Timo Pärkkä, Univ. of Oulu, Finland; Markku Ojala, VDERA, Finland; Ville Juiutinen, Univ. of Oulu, Finland; Arne Oehlsen, Charlotte, Germany; Janne Himanka, Sonera, Finland

19. Creating a Campus Center for Teachers "Teaching with Technology": Emory's Center for Interactive Teaching
    Jason Lemon, Emory Univ., USA; Wayne Morse, Emory Univ., USA

20. Designing Dynamical Learning Environments for Simulation
    R. (Rik) Min, Univ. of Twente, Holland

21. Designing for Harmony and Diversity
    Therese Nelson, Univ. of Chicago, USA

22. Development and Evaluation of Introductory IT Self-training System for Life-long Learners
    Katsuki SUZUKI, Masahumi Deguchi, and Hiroshi Takahashi, Iwate Prefectural Univ., Japan; Tetsuo Kato, Sendai Miyagi and Ryo Oikawa, Iwate NPO-NET Support, Japan

23. Differences in Learning with Multimedia vs Non-Multimedia Presentation Formats
    Fidel Michael Salinas, Univ. of the Pacific, USA

24. Digital Learning Hubs - developing, converging and managing educational information streams
    Alan Cody, Susan Hamilton, and Andrew Noskoff, The Univ. of Queensland, Australia; Stephen Atherton, Apple Australia, Australia; Hark Szeto, The Univ. of Queensland, Australia

(Poster/Demos continued)
Thursday, June 28 • Poster/Demonstrations • 6-8 PM • Tampere Hall, Exhibition Hall, 1st Floor

25. Direct Path Online Learning
Nancy Omaha Boy, Rutgers Univ., USA

26. Distance-Collaborative Design: An Approach to the Design of Children’s Electronic Textbooks
Norslund, Shiratuddin and Monica Landoni, Univ. of Strathclyde, UK

27. Do Gender Differences in Computer Efficacy Affect Course Grade Performance in Interactive Technology Courses?
Holly Traver and Blanca Dupuis, Rensselaer Polytechnic Inst., USA

28. Doing research on web-based learning
Leena Kuure and Saarenkunnas Maarit, Univ. of Oulu, Finland; Taalas Peppi, Univ. of Jyväskylä, Finland

29. Electronic Portfolio Development and Publishing: Options and Issues
Helen Barrett, Univ. of Alaska Anchorage, USA

30. Empowering the citizen
Frank von Danwitz, Deutsches-Diabetes-Forschungsinstitut, Germany; Thomas Baehr, Heinrich-Heine-Universitaet Dusseldorf, Germany; Werner A. Scherbaum, Deutsches-Diabetes-Forschungsinstitut, Germany

31. Evaluating the impact of multimedia learning environments: Visit to a virtual primary school
Fiona French, Univ. of North London, UK; Ian Campson, Univ. of Greenwich, UK; Ruth Wood, Kingston Univ., UK

32. Exploring Roles for Intelligent Agents in a Language Learning Moot
Juan Leon, Kyoto Univ., Japan

33. Feedback in Virtual Learning Environments
Marja Kallonen-Rönkkö, Univ. of Joensuu, Finland

34. Filling RL/IT Gap with International Curricula
Nina Rubina and Yurie Kirchin, Federal Univ. Computer Network of Russia RUNNet, Russia

35. GUIDE: An instrument for Evaluating Quality of Instructional Design in Mixed-Mode University Courses
Karen Belfer and John Nesbit, Technical Univ. of British Columbia, Canada

36. Grounding in collaborative web-based interaction and learning
Kati Mäkitalo, Univ. of Jyväskylä, Finland; Piritta Saio, Univ. of Oulu, Finland; Päivi Häkkinen, Univ. of Jyväskylä, Finland; Sanna Järvelä, Univ. of Oulu, Finland

37. How to implement WBT into higher education
Anna Grabowska, Technical Univ. of Gdansk, Poland

38. Incorporating Computer Assisted Learning into the Teaching of Cultural Studies: The Virtual Shopping Mall Case Study
Annamarie Jagose and Somaia Naidu, Univ. of Melbourne, Australia; Lee Wallace, Univ. of Auckland, New Zealand

39. Integrating XML-based Courses into a LRTA-Environment
Ralph Sontag and Uwe Hübner, TU Chemnitz, Germany

40. Interactive Video Distance Education Classroom Design For Effective Instruction and Learning
Chien-Chih (James) Lee, Mississippi State Univ., USA

Maria Lorna Kunnath, Univ. of Central Florida, USA

42. Learner characteristics that negatively impact online versus paper-and-pencil test performance
Roy Clarina, Penn State Univ., USA; Patricia Wallace, The College of New Jersey, USA

43. Managing Learning Technologies Laboratories: Some Issues That Are Not Related to Technology
M.O. Thirumarayan, Florida International Univ., USA

44. New Possibility in Medical Education
Erzsebet Forczek, SZTE, AOK, Hungary

45. Novel client representations for the Collaborative Virtual Learning Environment sTeam
Projektgruppe sTeam, Germany

46. PDAs: Learning in the Palm of Your Sweaty Little Hands
Carol Gilley, Univ. of Arkansas, USA; Donetta Ginn, Univ. of Memphis, USA

47. PICCO - the Pictorial Computer Simulation of a Selected Natural Phenomenon: Description, Demonstration and Research Results
Marijatta Kangassalo, Univ. of Tampere, Finland

48. Practice makes perfect: Preparing participants for an online conference
Jean Vermel, Mofet Inst. and Beit Berl College, Israel

49. Proposal of an Integrated Tool Involving Multiple Technologies for the Development of Courses on the Web
Rafael Scapin, Elaine Oliveira, and Wilson Vicentini, Univ. of Sao Paulo, Brazil

50. QoS-Support of Digital Video Broadcast (DVB) in the Next-Generation-Internet
Artur Lugmayr, TTOK, Finland

51. Relationship between technology design characteristics and the effects of small group learning
Yiping Lou, Louisiana State Univ., USA

52. Remote Control Laboratory for Physics Experiments via Internet
Heebok Lee, Jong-Heon Kim, and Keun-Cheol Yuk, Kongju National Univ., South Korea; Heeman Lee, Seowon Univ., South Korea

53. Retrieval System of Online Kanji Dictionary with Learning Functions
Koji Iida, Kazuto Yamada, Shinichi Fujita, and Seinosuke Narita, Waseda, Japan

54. Situating Training for Early Childhood Educators in An Authentic Multimedia Learning Environment: The Case of Chelsea
Gail Fitzgerald, Univ. of Missouri-Columbia, USA; Louis Semrau, Arkansas State Univ.

55. Small enterprises creating knowledge with information technology and networking
Taina Era and Kirsi Karjalainen, Univ. of Joensuu, Finland

56. TELEADAPT-SCINF: Continuous training for SMEs employers and employees in Cabilla y Leon and Berlin
María Angeles Perez, María Jesús Verde, Blanca Rodríguez, and Luisa Regueras, Univ. of Valladolid, Spain

57. THE ‘REDI’ PROJECT. Online educational resources for the development of professional multimedia skills
Ricardo Dal Farra, National Ministry of Education, Argentina

58. TOETS: Development of a computer assisted assessment system
Eddy Demeersseman, Bert Wylin, and Jos Panen, KULAK, Belgium

59. Teaching Science Through Web Adventures
Leslie Miller, Janice Mayes, and Donna Smith, Rice Univ., USA

60. Technology and Early Childhood Education: Issues and Resources for Supporting Young Children’s Healthy Sexuality
Kent Chrisman and Donna Coughenour, Shippensburg Univ. of Pennsylvania, USA

61. Technology-related Promotion & Tenure Guidelines
David Starrett and Michael Rodgers, Southeast Missouri State Univ., USA

62. The Effects of College Student’s Educational Level and Gender on their Use of the Internet as: (A) An Instructional Tool, (B) A Research Tool, (C) A Communication Tool, and (D) An Entertainment Tool
Amanhura Al-Motrif, King Saud Univ., Saudi Arabia

63. The Empirical Study of College Student’s Attitudes Toward Computer Networks and Internet Addiction Tendency
Ching-Hwei Hsieh and Shu Ching Yang, National Sun Yat-sen Univ.

64. The Notebook Manager: Handling courses on electromagnetics written in Mathematica ®
Marc Hellier, Frederic Suspene, and Walid Tabbara, SUPELEC, France

65. The Virtual Reality Science Museum of Konju National University in Korea
Heebok Lee, Jong-Heon Kim, and Keun-Cheol Yuk, Kongju National Univ., South Korea; Heeman Lee, Seowon Univ., South Korea

66. The elements of hypertext concept in some monographs published between Hypertext ’87 -conference and the launch of World Wide Web: in progress -report
Juha Kämäräinen, Univ. of Oulu, Finland

67. The NCTM Illuminations Website Project: Changing the Vision of School Mathematics
Eric Hart, Western Michigan Univ. & Maharishi Univ., USA; Brian Keller, Michigan State Univ., USA

68. The process of constructive learning: analysing children’s collaborative work while constructing with LegoMindstorms
Stefan Aufenanger, Univ. of Hamburg, Germany

69. Using PDP As A Skills Audit Tool To Support Professional Development
Charles Juwah, The Robert Gordon Univ., Scotland; Jenny Ure, Univ. of Aberdeen, Scotland

70. Video Supported Web Learning
Matjaz Debev and Dean Korosec, Univ. of Maribor, Slovenia

71. WWW-based Multimedia Training System Linked with Teaching Materials
Yamato Harada, Yusuke Yanagida, Shinichi Fujita, Chun Chen Lin, and Seinosuke Narita, Waseda, Japan
UNIV. MAIN BLDG., D16/Full: Cases
Cases DNAexplorer: Computer facilitated learning of bioinformatics using a situated model
Gregor Kennedy, Terry Judd, Mike Keppel, Carol Ginns, and Brendan Crabb, Univ. of Melbourne, Australia
Cases Web teaching of SQL: A five years experiment
Yelaine Bourdou, Supélec, France

UNIV. MAIN BLDG., D17/Full: SysRes
Tools FutureBoard: Supporting Collaborative Design Activities
Yuhei Yamauchi, IIBARAKI Univ., Japan; Takeshi Sunaga and Yumiko Nagai, Tama Art Univ., Japan
Tools The Learning Net - An Interactive Representation of Shared Knowledge
Martin Wessner, Torsten Holmer, and Hans-Rüdiger Pflöter, GMD-IPSI, Germany

TAMPERE HALL, STUDIO/Full: CES
Tools Image Analysis and Teaching the Concept of Function
Steven Tamimoto, Univ. of Washington, USA
HCl The relationship Between performance in Virtual and Thinking Styles, Gender, and ICT Experience
Nehama Shamy, Ort Israel, Israel; Rafi Nachmias, Tel-Aviv Univ., Israel

UNIV. MAIN BLDG., A3/Full: SysRes
Tools Multimedia Learning Systems based on IEEE Learning Objects Metadata (LOM)
Andreas Holzinger, Graz Univ., Austria; Thomas Kleinerberger, Tecmagh, Germany; Paul Müller, Univ. of Kaiserslautern, Germany
Learn TRIANGLE: A Multi-Media test-bed for examining incidental learning, motivation and the Tamagotchi-Effect within a Game-Show like Computer Based Learning Module
Andreas Holzinger, Graz Univ., Austria; Arnold Pichler, Wolfgang Almer, and Hermann Maurer, Graz Univ. of Technology, Austria

UNIV. MAIN BLDG., A4/Full: SysRes
Tools The Essen Learning Model - A Step Towards a Representation of Learning Objectives
Markus Bick, Jan M. Pawlowski, and Patrick Veith, Univ. of Essen, Germany
Learn VoiceXML Editor: A Workbench for Investigating Voiced-Based Applications
Janet Hartman and Joaquin Vila, Illinois State Univ., USA

PINNI BLDG., 0078/Full: CES
HCI Interaction Evokes Reflection: Learning Efficiency in Spatial Visualization
Glenn Smith, State Univ. of New York at Stony Brook, USA
Learn Teaching Over the Web versus Face to Face
Glenn Smith and David Ferguson, State Univ. of New York at Stony Brook, USA; Mike Caris, Adelphi Univ., The Netherlands

UNIV. MAIN BLDG., Computer Room 4/Interactive Session
Tools The Learning Net - An Interactive Representation of Shared Knowledge
Martin Wessner, Torsten Holmer, and Hans-Rüdiger Pflöter, GMD-IPSI, Germany

UNIV. MAIN BLDG., A/Panel (1 hour)
Panel (1 hour)

TAMPERE HALL, Auditory: Keynote
The Learning Federation: A Research Agenda for Transforming Learning in the Digital Age
Randy J. Hinrichs, Group Research Manager, Learning Sciences and Technology, Microsoft Research, Microsoft, USA

TAMPERE HALL MAIN AUDITORIUM
Keynote
The Learning Federation: A Research Agenda for Transforming Learning in the Digital Age
Randy J. Hinrichs, Group Research Manager, Learning Sciences and Technology, Microsoft Research, Microsoft, USA

Beverage Break: 9:30-10:00 AM
Concurrent Sessions – Friday, June 29

Learn

Limitations of Online Courses: Barriers to Supporting Constructive Learning
Rose Marra and David Jonassen, Univ. of Missouri, USA

Tools

System Integration Tools for Working and Learning Environment: Universal Clipboard, FindCommander and ExMouse
Tomoaki Sagisaka and Tsutakawa Munakata, Tamagawa Univ., Japan

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev
Learn

Constructivist Approach toward Designing IT-Based Constructivist Learning Activities
Seng Chee Tan, Nanyang Technological Univ., Singapore

Learn

Training Preservice Teachers to Use Technology Intelligently: ThinkQuest for Tomorrow’s Teachers (PT3) Grant
Sue Eskridge, Univ. of the Pacific, USA; Robert Sibley, ThinkQuest, Inc., USA; Marilyn Draheim, Univ. of the Pacific, USA; Matthew Russell, Center for Evaluation and Research, USA; Carla Piper, Univ. of the Pacific, USA

Learn

Is the Web Too Powerful?
Judith Walker and Goynk Le, Univ. of Tasmania, Australia

UNIV. MAIN BLDG., A2A/Brief: NewDev
Infra

An Intelligent tutoring system: Smart Tutor
Jie Zhang, Bruce Cheung, and Lucas Hui, The Univ. of Hong Kong, Hong Kong

Infra

Creating web-based programs for international delivery: Curriculum and faculty concerns
A.W. Strickland, Larry Harris, T.C. Mattocks, Jane Strickland, and Dorothy Sammons, Idaho State Univ., USA

Infra

Integrating a course delivery platform with information, student management and administrative systems
Anne A’Herran, James Cook Univ., Australia

UNIV. MAIN BLDG., D10 B/Brief: NewDev
Learn

Application of Virtual Reality to the periodic table for chemistry education
Park JongSeok, Kim JaeHyun, and Ryu HaIl, Kongju National Univ., Republic of Korea

Learn

Self-regulated learning as a strategy for enhancing the effectiveness of adult online learning
Cheng-Yen Wang, National Kaohsiung Normal Univ., Taiwan

Learn

Using computers in the programs of qualifying teachers of Arabic in the faculties of education in Egypt
Abdelrahman Kamel Abdelrahman, Cairo Univ., Egypt

PINNI BLDG., 0081/Brief: NewDev
Cases

“Do no Harm” A First Measure of Effectiveness in Small Distance Education Programs
Gerald “Jerry” Nelson, Casper College, USA

Learn

Creating A Web-based Graduate Core Course in Instructional Technology for International English Speaking Students
Jane Strickland and Al Strickland, Idaho State Univ., USA

Cases

Teacher professional development through online netcourses: The design of a course to support scientific inquiry
Michele Spillnik, CILT - Univ. of California, Berkeley, USA

UNIV. MAIN BLDG., D16/Brief: NewDev
Cases

Designing Children’s Electronic textbooks With Distance Partners
Norah hubaish Shiratuddin and Monica Landoni, Univ. of Strathclyde, UK

Cases

Entrepreneur simulation
Terry Schumacher, Rose-Hulman Inst. of Technology, USA

Cases

Quality in Web-supported Learning
Jill Fresen, Univ. of Pretoria, South Africa

UNIV. MAIN BLDG., D17/Brief: Other
Learn

Design for Learnactivity in E-Learning

HCl

It’s Like Telling Myself A Story; Increasing Reading Comprehension Through Thoughtful Formatting and Presentation of Text in Digital Media
Brock Dubbels, Univ. of Minnesota, USA

HCl

Web-based Instruction; A Paradox and Enigma in Instructional Paradigms and Design Principles
Michael G. Kadlubowski, Northern Illinois Univ., USA

TAMPERE HALL, STUDIO/Brief: NewDev
Tools

An Architecture of an Electronic Education Market Using XML-Standards
Jan M. Pawlowski, Markus Bick, and Patrick Veith, Univ. of Essen, Germany

Cases

Ludus Vitae: The Challenge of Educational Game Design
Suzanne de Castell and Jennifer Jenson, Simon Fraser Univ., Canada

Tools

NetKnowledge Presenter and Content Reuse
Ng S. T. Chong and Ney Andre de Mello Zunino, United Nations Univ./Inst. of Advanced Studies, Japan

UNIV. MAIN BLDG., A3/Brief: NewDev
Tools

Analytic Geometry on the Web
Araceli Reyes, Instituto Tecnologico Autonomo de Mexico, Mexico

Tools

Cost Effective Electronic Course Development and Delivery via the Internet
Konrad Michalski, Athabasca Univ., Canada

Tools

Electronic Collaboration Tools - Diffusion of an Innovation
Brian Mackie and Jack Marchewka, Northern Illinois Univ., USA

UNIV. MAIN BLDG., A4/Brief: NewDev
Tools

Design and Implementation of Java and Flash Programs for Teaching and Learning Elementary number theory
Yiu Kwong Man. The Hong Kong Institute of Education, Hong Kong

Tools

Using an in-house developed e-Learning portal at Ngee Ann Polytechnic to deliver an online course in Calculus
Seu-Kea Lua and Hock Guan Tan, Ngee Ann Polytechnic, Singapore

Tools

Urania, the new technologies for the information and education in Science
Leopoldo Benacchion, Federica Guadagnini, Luca Nobili, Melanie Brolis, and Caterina Bocchio, Astronomical Observatory of Padua, Italy

PINNI BLDG., 0078/Brief: NewDev
Learn

A technological framework for teachers’ training through case-based reasoning and collaborative learning
Michel Aubé, Denis Bédard, Robert David, and Denis Trudelle, Univ. de Sherbrooke, Canada

Learn

Implementing a Digital Campus: Nuisance or Nirvana
Steve Schiough, Univ. of Wisconsin-Stout, USA

Learn

Using an Online Architecture to Link Faculty and Institution Needs from Survey Data
Bronwyn Stuckey and John Hedberg, Univ. of Wollongong, Australia

Learn

Collaborative Knowledge Building: Preliminary Research Findings
Cher Hill and Jan van Aalst, Simon Fraser Univ., Canada

Lunch Break: 12:15-1:30 PM

1:30-2:30 PM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)
The Online Learning Alchemist: Strategies for Preventing Gold from Turning into Lead
Rod Sims, Deakin University, Australia

PINNI BLDG., PAAVO KOLI/Full: Cases
Cases

Building Online Community for Professional Development
Bronwyn Stuckey and John Hedberg, Univ. of Wollongong, Australia

Cases

Developing a Collaborative Learning Environment in Physiology - Using an Online Architecture to Link Faculty and Institution Needs
Helen Kavnoudias, Paul Fritze, Robert Kemm, and Williams Neil, Univ. of Advanced Studies, Japan

UNIV. MAIN BLDG., D11/Full: CES
Learn

Computer supported problem solving: Enhancing thinking skills in science
Catherine McLoughlin and Rowan Hollingworth, Univ. of New England, Australia

Learn

Understanding the Quality of Students’ Interactions through Computer Conferencing in Higher Education from the Social Constructivist Perspective
Veronica Hendriks and Dorit Maor, Curtin Univ. of Technology, Australia
UNIV. MAIN BLDG., TYT Auditorium/Full: CES
Learn Fostering Higher Order Thinking through Online Tasks
Joe Luca, Edith Cowan Univ., Australia; Catherine McMoughlin, Univ. of New England, Australia

Learn Time versus utility: What IT staff say about the educational use of the Web
Judy Sheard, Margot Postema, Selby Markham, and John Hurst, Monash Univ., Australia

UNIV. MAIN BLDG., A2A/Full: SysRes
Infra The Internet as a tool for a revolution in education in Africa: A dream or reality
Nomusa Dlodlo, National Univ. of Science and Technology, Zimbabwe; Nompilo Sithole, Solusi Univ., Zimbabwe

Infra Using Educational Dialogues to Design Systems for Learning
John Cook, Univ. of North London, UK; Martin Oliver, Univ. College London, UK; Grainne Conole, Univ. of Bristol, UK

UNIV. MAIN BLDG., D10 B/Full: Cases
HCI Scenario-based Design of Flexible Hypermedia Learning Environments
Huberta Kritzenberger, Ronald Hartwig, and Michael Herczeg, Univ. of Luebeck, Germany

Learn Collaborative Knowledge Building in Web-based Learning: Assessing the Quality of Dialogue
Elsebeth Sorensen, Aalborg Univ., Denmark; Eugene Takte, Iowa State Univ., USA

PINNI BLDG., 0081/Full: CES
HCI The usability of the Technology Acceptance Model in an attempt to predict teachers’ computer use
Johan van Braak, Vrije Univ. Brussels, Belgium

Cases Multipoint Desktop Videoconferencing for Teacher Education: A Singapore Experience
Chun Hu, Angela Wong, Leslie Sharpe, Lachlan Crawford, and Saravanan Gopinathan, National Inst. of Education, Singapore

UNIV. MAIN BLDG., D16/Full: Cases
Liisa Huovinen, Finnish Ministry of Education, Finland

Cases Creating An Active Learning Environment Using Digital Video: What I Did and How I Did It
Alfred Benney, Fairfield Univ., USA

UNIV. MAIN BLDG., D17/Full: SysRes
Tools A Generator and a Meta Specification Language for Courseware
Bernd Gaede, FORWISS, Germany; Herbert Stoyan, FAU Erlangen, Germany

Tools New Media in the Design of a Learners’ Dictionary
Alfred Benney, Fairfield Univ., USA

TAMPERE HALL, STUDIO/Full: SysRes
Tools Extending The ARIADNE Web-based Learning Environment
Rafael Van Durm and Erik Duval, K.U.Leuven, Belgium

Tools Supporting Faculty in the design and structuring of Web-based courses
Howard Freeman, Steve Ryan, and Jos Boys, De Montfort Univ., UK

UNIV. MAIN BLDG., A3/Full: SysRes
Tools Developing Modular and Adaptable Courseware Using TeachML
Frank Wefing and Lorz Alexander, Dresden Univ. of Technology, Germany

Tools Drawing Together in the Classroom: An Application of the “cartable electronique” Project
Christine Ferraris, Christian Martel, and Philippe Brunier, Equipe SysCom – “cartable electronique” Project, Univ. de Savoie, France

UNIV. MAIN BLDG., A4/Full: SysRes
Tools Student modeling for performance assessment using Bayesian network on web portfolios
Chen-Chung Liu, Gwo-Dong Chen, and Chin-Yeh Wang, National Central Univ., Taiwan; Ching-Fen Pai, Fortune Inst. of Technology, Taiwan

Tools Universitas 21 Learning Resource Catalogue using IMS Metadata and a New Classification of Learning Objects
Tony Koppi and Lisa Hodgson, Univ. of New South Wales, Australia

PINNI BLDG., 0078/Full: CES
Learn Collaborative knowledge construction in electronic forums and integrative scenarios development as bridges between the socioconstructivist discourse and its application in educational practice: An exploratory research with Preservice teachers
Jacques Verne, Univ. de Montréal, Canada; Geneviève Légaré, Concordia Univ., Canada

Learn Investigating processes of social knowledge construction in online environments
Catherine McMoughlin, Univ. of New England, Australia; Joe Luca, Edith Cowan Univ., Australia

UNIV. MAIN BLDG., Computer Room 4/Interactive Session
CD-ROM of Teaching Greek, Irish and Finnish History of Arts in Secondary Education
Julika Maki and Nick Gratsouris, The Ziridis Schools, Greece

Beverage Break: 2:30-2:45 PM

UNIV. MAIN BLDG., D10 A/Panel (1 hour)
Learner Led Learning in an Online Community
Wim Veen, Delft Univ. of Technology, The Netherlands; Betty Collins, Univ. of Twente, The Netherlands; Sicco Santama, and Ralph Genang, Delft Univ. of Technology, The Netherlands

PINNI BLDG., PAAVO KOLI/Brief: NewDev
Cases A Network Learning Environment to Support Control Engineering Learning
Juha Lindfors, Univ. of Oulu, Finland

Cases Mobile technology and the social context of distance learning
Carloohan Orr, Ulf Hedestig, and Victor Kaptelinin, Umea Univ., Sweden

Tools A distributed computer-based screening system for learning disabilities with centralised data processing
Athanasios Protopapas, Inst. for Language and Speech Processing, Greece; Michalis Karanaridis, Hellenic Paedagogical Inst., Greece; Christos Skaloudakis, and Dimitrios Nikolopoulos, Inst. for Language and Speech Processing, Greece; Anna Kriha, Hellenic Paedagogical Inst., Greece

UNIV. MAIN BLDG., D11/Brief: NewDev
HCI Examining Social Presence in Online Courses
Jennifer Richardson and Karen Swan, Univ. at Albany/SUNY, USA

HCI Infusing Technology in Our Teacher Education Courses
Maria Victoria Perez Cereijo, Tandra Tyler-Wood, and Jane Pemberton, Univ. of North Texas, USA

HCI Knowledge Elitication Systems: Reflective Technology for personal learning
Steven Coombs, Sonoma State Univ., USA

UNIV. MAIN BLDG., TYT Auditorium/Special Finnish R&D Presentations (continued at 4 PM)
Innovative Research from Tekes eLearning Program USIX
(Finnish R&D projects supported by the Finnish Technology Agency)

Tools Ladder - the Virtual Club for Teenage Writers
Päivi Paananen, Arkkivoltti Partnership/Partner and Pirko Mäkimattila, Media Company Rajapinta/Manager, Finland

Tools Individual and Collaborative Learning in One Learning Environment
Matti Vitikainen, Managing Director, Edusolutions Oy (Ltd.), Finland

Tools Crafting Media Objects for Cooperative Language Learning
Pekka Lehtito, Managing Director, LingoNet Oy, Finland

Tools The value chains in distance technology for small businesses and education
Harri Keiko, Project Manager, Pori School of Technology and Economics affiliat- ed to Tampere Univ. of Technology and Turku School of Economics and Business Administration, Finland

UNIV. MAIN BLDG., D10 B/Brief: NewDev
Cases Development of Technology Based Distance Learning: A Case Study of the Centre for Commerce and Administrative Studies at Athabasca University
David Amin, Athabasca Univ., Canada

Cases Using Virtual Environments to Construct Competitive Advantage for Virtual Communities
Jenny Urqu, Aberdeen Univ., Scotland UK; Julian Malins, Robert Gordon Univ., Scotland UK; Gudrun Jaegensberg, Zwickau Hochschule, Germany
**Concurrent Sessions – Friday, June 29**

**UNIV. MAIN BLDG., D10 A/Full: SysRes**  
**Tools** A Framework for Creating Counterexamples in Discovery Learning Environment  
Tomoya Horiguchi, Kobe Univ. of Mercantile Marine, Japan; Tsukasa Hiroshima, Kyushu Inst. of Technology, Japan

**Tools** Application of Mobile agents in Web-based learning environment  
Hong Hong, Dr Kirshuk, and Xiaqiu He, Massey Univ., New Zealand; Ashok Patel, De Montfort Univ., UK; Chris Jesshope, Massey Univ., New Zealand

**PINNI BLDG., PAAVO KOLI/Full: CES**  
**Learn** Emergent-collaboration in Web-supported academic courses  
Rafi Nachmias, David Mioduser, Avigail Oren, and Judith Ram, Tel-Aviv Univ., Israel

**Learn** Motivation and Participation in Inquiry Learning within a Networked Learning Environment  
Anna Tapola, Kai Hakkarainen, Juhu Syr, Lasse Lipponen, and Markku Niemivirta, Univ. of Helsinki, Finland

**UNIV. MAIN BLDG., D11/Full: CES**  
**Tools** A Review of Virtual Learning Environments From a Learner Centred Approach  
Suzanne Hardy and Megan Quentin-Baxter, Univ. of Newcastle, UK

**Learn** Developing technology-supported inquiry practices in two comprehensive school classrooms  
Hanna Salovaara and Pirtha Salo, Univ. of Oulu, Finland; Mariarana Rahikainen, Univ. of Turku, Finland; Lasse Lipponen, Univ. of Helsinki, Finland; Sanna Järvelä, Univ. of Oulu, Finland

**UNIV. MAIN BLDG., TYT Auditorium/Special Finnish R&D Presentations (continued from 2:45 PM)**  
Innovative Research from Tekes eLearning Program USIX  
Finnish R&D projects supported by the Finnish Technology Agency

**Tools** Content Management and Standardization in eLearning Solutions-Case Evolution-plan  
Esako Ulimatt, R&D Manager, RS Vision, Finland

**Tools** Virtual Presence, new dimensions in e-Learning-Case study: “Virtual Language Lab” Teleste Educational’s co-development project with California State University  
Andrey Strycz, Marketing Manager, Teleste Educational Oy, Finland

**Tools** Open Learning Environment Project: Research, Development and Experimentation  
Seppo Pohjolainen, Hypermedia Laboratory, Tampere Univ. of Technology, Finland

**UNIV. MAIN BLDG., A3/Brief: NewDev**  
**Learn** The third generation of computerized counseling  
Jari Laarni, Helsinki School of Economics and Business Admin., Finland

**Tools** Interactive Virtual Electronics Lab  
Tania Vassileva, Technical Univ., Bulgaria; Ivan Fumadziev, Technical Univ., Bulgaria; Vassilly Tchoumatchenko, Technical Univ., Bulgaria

**Tools** The Use of the Dedicated Web Site to Develop and Maintain  
Communications Skills Among Business School Students and Graduates  
Beverly Block and Mark Comstock, Missouri Southern State College School of Business Admin., USA

**Tools** The third generation of computerized counseling  
Jari Laarni, Helsinki School of Economics and Business Admin., Finland

**UNIV. MAIN BLDG., A4/Brief: NewDev**  
**Learn** Development of interactive online cases in a medical school: A case study in Pediatric Genetics  
Anju Relan and Pedro Sanchez, School of Medicine, UCLA, USA

**Tools** Education Portal for a K - Economy  
Nair Vijay, Planetelkik Sdn Bhd, Malaysia

**Tools** Secure & Credible E-Learning Systems  
Dennis Anderson, Pace Univ., USA; Sabah Jassim, Univ. of Buckingham, UK

**PINNI BLDG., 0078/Brief: NewDev**  
**Learn** The role of visual expression in the generation of epistemological interpretations:  
Olga Kritskaya, Michigan State Univ., USA

**Tools** Training Virtual Tutors: The JOB experience  
Ruth Gamer, Learn Net Advisors & Research, UK; Margaret Dilloway, Bournemouth College of Further Education, UK

**PINNI BLDG., 0081/Full: SysRes**  
**Cases** Scaffolding Performance in EPSSs: Bridging Theory and Practice  
Michael Hannafin, Univ. of Georgia, USA; James McCarthy, Sonalysts, USA; Kathleen Hannafin, Univ. of Georgia, USA; Paul Radke, NAVCTSD, USA

**Tools** Countermeasures against Security Breaches in Web-based Training Environments  
Edgar Weippl, Software Competence Center Hagenberg, Austria
Concurrent Sessions

UNIV. MAIN BLDG., D16/Full: SysRes
Infra A model for online unit development: Necessity, the catalyst for invention
Maria Northcote and Titheron, Edith Cowan Univ., Australia

Infra The Logistics Knowledge Portal: Gateway to More Individualized Learning in Logistics
Gaby Neumann, Univ. of Magdeburg, Germany; Stanislave Krzyzaniak, Inst. of Logistics and Warehousing, Poland; Carl Christian Lassen, Technical Univ. of Denmark

UNIV. MAIN BLDG., D17/Full: SysRes
Tools MediBook: Combining semantic networks with metadata for learning resources to build a web-based learning system
Achim Steinacker, Andreas Faatz, Cornelia Seiberg, Mica Riman, and Stefan Hoermann, KOM, TU Darmstadt, Germany

Tools EM2 - an Educational Meta-data Management tool
Panagiota Karadimitriou, Athanasios Papageorgiou, Charalampos Karagiannis, and Demetrios Sampson, IT-CERTH, Greece

UNIV. MAIN BLDG., A3/Full: SysRes
Tools Improving Web-based Training using an XML content base
Simon G. West, Univ. of Tuebingen, Germany; Andreas Zell, Univ. of Tuebingen, Germany

HCl Videogames and Gameplay
Matthew Southern, Liverpool John Moores Univ., UK

UNIV. MAIN BLDG., 0078/Full: SysRes
Cases CRACITIC: Lesson learned from the implementation of a socioconstructivist approach in a multiple classrooms collaborative project using the Web
Jacques Viens, Univ. de Montréal, Canada; Allen Irvanyh, Mc Gill Univ., Canada; Sonia Rioux, Univ. de Montréal, Canada; Alain Breuleux, Mc Gill Univ., Canada; Pierre Bordeleau, Univ. de Montréal, Canada

Tools ITCOLE Project - Designing Innovative Technology for Collaborative Learning and Knowledge Building
Teemu Leinonen, Univ. of Art and Design Helsinki, Finland; Kai Hakkarainen, Univ. of Helsinki, Finland; Wolfgang Appelt, Forschungszentrum Informationstechnik GmbH, Germany; Antonio Gómez-Skarmetav, Univ. of Murcia, Spain; Samu Leinonen, Univ. of Art and Design Helsinki, Finland

PINNI BLDG., D11/Full: CES
Learn Guidelines For Designing and Developing online e-Learning Courses Including Intellectual Property Considerations
Gary Bitter, Arizona State University, USA

Beverage Break: 9:30-10:00 AM

Concurrent Sessions

SATURDAY JUNE 30

8:30-9:30 AM

TAMPERE HALL MAIN AUDITORIUM

Keynote

Guidelines For Designing and Developing online e-Learning Courses Including Intellectual Property Considerations
Gary Bitter, Arizona State University, USA

10:00-11:00 AM

UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)

The Galileo Educational Network: Bringing Learning to Learners
Pat Clifford & Sharon Friesen, Galileo Educational Network, Canada

PINNI BLDG., PAAVO KOLI/Brief: Other

Learn A Study of How Technology Influences Interior Design of Primary School
Rong-Jue Fung, National Kaohsiung Normal Univ., Taiwan; Sun-De Su, National Ping-Tong Teachers’ College, Taiwan; Hung-Jen Yang, Tai-Shen Lee, National and Yenq-Diann Wang, National Kaohsiung Normal Univ., Taiwan

Learn Mentoring at a Distance: Helping Adult Learners Succeed in an Online Learning Environment
Vincent E. Shadrer, Western Governors Univ., USA; Mingming Jiang, Western Governors Univ., USA

Learn Study of thermal phenomena in junior high school. A new technology based learning environment
Panagiotis Dimitriadis, Lamprini Papatsimpana, and George Kalkanis, Univ. of Athens, Greece

UNIV. MAIN BLDG., D11/Full: CES

Learn Digital Audio/Video in Multimedia: New Challenge for Educators
James E. Yao, Texas A&M Univ.-Commerce, USA; Chang Liu, Northern Illinois Univ., USA

Learn Using Databases in Teaching Advanced Mathematics Courses
Mkhilai Bouniav, Southern Utah Univ., USA

UNIV. MAIN BLDG., TYT Auditorium/Brief: NewDev

Infra Accessing Best-Match Learning Resources in WBT Environment
Denis Helic, Hermann Maurer, and Nick Scherbakov, TU Graz, Austria

Infra Developing and Deploying Online Courses with JCourse
Willie Wheeler, Carnegie Mellon Univ., USA; David Danks, Univ. of California, San Diego, USA; Joseph Ramsay, Richard Scheines, and Joel Smith, Carnegie Mellon Univ., USA

Infra Potential Energy Courseware: A Prototype for Scientific Experiments utilizing the WWLab System
Motoyo Nisho, Prefectural Univ. of Kumamoto, Japan; Yutaka Tsutsui, Kumamoto Gakuen Univ., Japan; Ryouji Matsumo, Prefectural Univ. of Kumamoto, Japan

UNIV. MAIN BLDG., A2A/Brief: Other

Learn Designing Collaborative Teaching and Learning in Virtual Environments for Large Scale International Participation
Friedrich Scheuermann, Univ. of Innsbruck, Austria; Ken Larsson, Stockholm Univ./Royal Inst. of Technology, Sweden; Roxanne Toto, The Pennsylvania State Univ., USA

Tools FAIRWIS Usage for Virtual Learning in Student Micro Enterprises
Emanuela Pauselli and Alessandro D’Atri, LUISS, Italy; Paol Buono, Univ. di Bari, Italy; Maria Francesca Costabile, Univ. di Bari, Italy; Matthias Hemmje, GMD, Germany

Cases Ghost Movies: Augmented Reality and Educational Narratives
Jay Bolter, Blair MacIntyre, and Kavita Philip, Georgia Inst. of Technology, USA

UNIV. MAIN BLDG., D10 B/Brief: Other

Cases Coaching medical academics in multimedia and Online teaching and learning principles
Nlke Keppel, The Univ. of Melbourne, Australia

Learn Pedagogical issues on using Web based Instructuion
Isadora Mitchel, Mt. Hope Junior Secondary, Trinidad and Tobago
### Concurrent Sessions – Saturday, June 30

#### UNIV. MAIN BLDG., A3/Full: SysRes
**Cases** - The NCTM Illuminations Website Project: Changing the Vision of School Mathematics  
Eric Hart, Western Michigan Univ. & Maharishi Univ., USA; Brian Keller, Michigan State Univ., USA  
**Tools** - A Local Indexing for Web-based Learning Resources  
Shinobu Hasegawa, Akihiro Kashihara, and Jun’ich Toyoda, Osaka Univ., Japan

#### UNIV. MAIN BLDG., A4/Full: SysRes
**Tools** - Aspects of collaborative learning environment using distributed virtual environments  
Christos Bouras, Univ. of Patras, Greece; Vasili Triantafillou, and Thrasiouklos Tsiotas, Computer Technology Inst., Greece  
**Tools** - Preparing oral examinations of mathematical domains with the help of a knowledge-based dialogue system  
Peter Schmidt, Univ. of Bonn, Germany

#### UNIV. MAIN BLDG., BLDG., 0078/Full: CES
**Learn** - Relationships among Learning Characteristics, Course Design Factors, and Student Perceptions of Learning Online  
Karen Swan, Univ. at Albany/SUNY, USA  
**Learn** - Teaching Pedagogy and Computer-facilitated Instruction: The Results of a National Survey in the United States  
Debra Ghoghan, Minnesota State Univ., Mankato, USA

#### UNIV. MAIN BLDG., D10 A/Invited Speaker (1 hour)
**Learn** - Dynamic tools for problem-based learning  
Emo Lehtinen, Univ. of Turku, Finland

#### UNIV. MAIN BLDG., D11/Full: Other
**Learn** - Online Pedagogy as a Challenge to the Traditional Distance Education Paradigm  
Jacquelin McDonald, and Shirley Reushtie, Univ. of Southern Queensland, Australia  
**Learn** - Teaching And Learning In A Technological Age: Transforming Learning Through Teacher Training  
Gerald W. Burgess, Barbara D. Holmes, and Bette Seeley, Albany State Univ., USA  
**Learn** - Technology as Text  
Mark McMillen and Tony Fotherington, Edith Cowan Univ., Australia

#### UNIV. MAIN BLDG., D10 A/Brief: Other
**Learn** - How do new media need new didactic methods?  
Patrick Kunz, ETH Swiss Federal Inst. of Technology, Switzerland  
**Learn** - Exploring the Efficacy of Student Moderators  
Liam Rourke and Terri Anderson, Univ. of Alberta, Canada  
**Learn** - Web-based Training and Corporate American  
Doris Lee and Terri Chalmers, Penn State Univ., USA

#### UNIV. MAIN BLDG., D16/Full: Other
**Infra** - A survey of academic use of information technology  
Helen Carter, Paul Eite, Brian Ferry, Di Kelly, and Reinhane Safavi-Naini, Univ. of Wollongong, Australia  
**Tools** - Broadband Multimedia for Distance Education via Satellite  
Ioan Roxin, IUT Belfort-Montbelliard, France  
**Learn** - Collaborative activity: Using concept mapping software in a distributed learning environment  
Carole Steketee, Ron Oliver, and Jan Herrington, Edith Cowan Univ., Australia

#### UNIV. MAIN BLDG., A1/Full: Other
**Learn** - Digital vs. Analogue  
Kimiko Isoro, Osaka Kunei Womens College, Japan  
**Tools** - The Use of Technology to Improve Mathematics Performance Among Elementary School Students  
Albert Strickland, David Coffland, Jane Strickland, Jack Coffland, and Larry Harris, Idaho State Univ., USA  
**Tools** - Developing Web-based Courses on Computing Using a Hypermedia Model  
José V. Benlloch-Dualde, Félix Buendía-García, Manuel Agustí i Melchor, José A. Gil-Salinas, and Angel Rodas-Jordà, Escuela Univ. de Informatica, Spain

#### UNIV. MAIN BLDG., A3/Full: Other
**Tools** - Collaborative Tools in High Bandwidth Networks: A Case for E-Learning in a Knowledge Management Environment  
Shanani Farmer, Defense Intelligence Agency, USA; Sue Stein, Department of Defense, WHS, USA  
**Tools** - GAIA: Curriculum-based Exploratory Educational Software Using 3D Components  
Athanasios Papageorgiou, and Demetrios Sampson, Informatics and Telematics Inst. (ITI), Greece; Ioannis Kotsias, Pforzifor Tekhnogonisia, Greece; Nikolaos Dapontes, Pforzifor Tekhnogonisia, Greece  
**Tools** - Online assessment decision supports in electronic portfolio systems using data mining technologies  
Gwo-Dong Chen, Chen-Chung Liu, and Kuo-Liang Ou, National Central Univ., Taiwan; Ching-Fen Pai, Fortune Inst. of Technology, Taiwan; Baw-Jhiune Lu, Yuan Ze Univ., Taiwan

#### UNIV. MAIN BLDG., A4/Full: Other
**Learn** - Faculty Development Webbing: A Model of Just-in-Time Mentoring and Beyond  
Donna Wood, Melissa Becker, and Susan Frusher, Northeastern State Univ., USA  
**Learn** - Humanities on the Internet: A Collaborative Model for Faculty Development  
Carol Hansen, and Catherine Zulbin, Weber State Univ., USA  
**Learn** - Successful integration of learning technologies in school classrooms (SILT)  
Elizabeth Harr nell-Young, Univ. of Sydney, Australia

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**Lunch Break: 12:15-1:30 PM**

**1:30-2:30 PM**

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**Cases** - Using WebCT to supplement a distance learning class: student perceptions of effectiveness  
Dorothy Simmons, Albert Strickland, and Charles Zimmerly, Idaho State Univ., USA  
**Cases** - The Canadian TeleLearning Network of Centres of Excellence: A National, Multidisciplinary, Multisectoral Approach to Catalyzing Innovative Research and Effective Online Learning Practice  
Joanne Curry, TeleLearning NCE, Canada  
**Cases** - The Effects of Strategies Instruction via Computer on Student Attitudes toward Mathematics Problem-Solving  
Dohee Ahn, Dong-Eui Univ., South Korea  
**Cases** - Methodologies of distance invigilation to support distance education  
Yanhua Cao, Peking Univ., China; Hongli Zhao, Peking Univ., China; Ke Chen, Peking Univ., China

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**INFRA** - A Local Indexing for Web-based Learning Resources  
Shinobu Hasegawa, Akihiro Kashihara, and Jun’ich Toyoda, Osaka Univ., Japan  
**INFRA** - Preparing oral examinations of mathematical domains with the help of a knowledge-based dialogue system  
Peter Schmidt, Univ. of Bonn, Germany  
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Doris Lee and Terri Chalmers, Penn State Univ., USA
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