

IADIS International Conference CELDA 2004

CONFERENCE AT A GLANCE

	December, 15 Wednesday	December, 16 Thursday	December, 17 Friday
8:30			
9:00		Invited Talk	Parallel Sessions
9:45	Opening Session		
10:00	Keynote Lecture	Parallel Sessions	
11:00	Coffee - Break		
11:30	Parallel Sessions	Parallel Sessions	Parallel Sessions
13:00	Lunch (13:00 - 14:30)		Closing Session
14:30	Parallel Sessions		
15:30			
16:30	Coffee - Break		
17:00	Posters	Tutorial	Tour + Conference Dinner
19:00			

IADIS International Conference CELDA 2004

CONFERENCE PROGRAM

Wednesday 15th, December 2004

08:30-19:30 Welcome Desk

09:45-10:00 Session O – Opening Session
(Room Europa)

OPENING SESSION

Prof. Pedro Isaias, Kinshuk and Demetrios G Sampson

10:00-11:00 Session KL1 – Keynote Presentation
(Room Europa)

ADVANCES IN COGNITION, LEARNING AND PERFORMANCE IN THE DIGITAL AGE

Prof. J. Michael Spector, Florida State University, USA

11:00-11:30 Coffee Break

11:30-13:00 Session FP 15.1

Exploratory Technologies
(Room Europa)

A DYNAMIC DIGITAL ENVIRONMENT FOR THE EXPLORATORY LEARNING OF PHYSICS PEDAGOG (F11)

Scott Scott Stevens, Dean Zollman, Brian Adrian, Chih-yu Chao and Harry Ulrich

COLLABORATIVE TASK AND COMMUNICATION PROTOCOL AMONG PEDAGOGICAL AGENTS IN TEACHING TASK (F034)

Ryo Takaoka and Toshio Okamoto

THINK GLOBALLY, ACT LOCALLY: PROMOTING PRE-SCHOOL LEARNING ABOUT OTHER CULTURES (F260)

Monica Divitini, Magnus Jenssen and Kristin Skau

11:30-12:50 Session FSP 15.2

Just-in-time And Learning-on-demand
(Room Bruxelles)

WASA: AN INTELLIGENT AGENT FOR WEB-BASED SELF-ASSESSMENT (F083)

Georgouli Katerina

A FLEXIBLE AUTHORING TOOL SUPPORTING LEARNING ACTIVITIES (F203)

Pythagoras Karampiperis and Demetrios Sampson

JILL (JUST-IN-LOCATION LEARNING) (S127)

Joaquin Ruiz and Susan Wheeler

11:30-13:00 Session FSP 15.3

Student-Centered Learning
(Room Panorama)

ABCNET: LITERACY TOOL BASED ON ENTITIES (F102)

Óscar Pereira and Joaquim Pinto

DESIGNING META-LEARNING TOOL FOR LEARNING WEB CONTENTS (F130)

Akihiro Kashihara and Shinobu Hasegawa

CONCEPTUALIZING STUDENT LEARNING THEORY (F241)

John Dickey and Richard Larkin

“PLS TURN UR MOBILE ON”: SHORT MESSAGE SERVICE (SMS) SUPPORTING INTERACTIVITY IN THE CLASSROOM (S267)

Carina Markett, Inmaculada Sánchez, Stefan Weber and Brendan Tangney

13:00-14:30 Lunch Break

14:30-16:30 Session FP 15.4

Collaborative Learning
(Room Europa)

EXPERIENCES OF THE USE OF ARGUMENTATION VISUALISATION IN SECONDARY SCHOOLS (F209)

Miika Marttunen and Leena Laurinen

COMBINING INTERACTIVE MODELLING AND SCIENTIFIC DISCOVERY IN THE CLASSROOM (F120)

Kay Hoeksema and Ulrich Hoppe

PEDAGOGICAL SUPPORT AT THE E-LEARNING COURSEWARE: AN INTELLIGENT SOFTWARE AGENT (F105)

Anna Angelini, Enrica Gentile, Umberto Ostello and Paola Plantamura

PEER-EVALUATION IN MULTI-CULTURAL CONTEXT: LANGUAGE AND CULTURE ISSUES IN INTERNATIONAL COLLABORATIVE PROJECT (F212)

E.Zaitseva, F.Bell, J.Whatley and J.Shaylor

14:30-16:30 Session FSP 15.5

Cognition in Education
(Room Bruxelles)

SELECTING MULTIMEDIA INTERACTIONS TO BUILD KNOWLEDGE STRUCTURES (F131)

Wendy Doube, Juhani Tuovinen and Dale Shaffer

MODELLING INDUCTIVE REASONING ABILITY FOR ADAPTIVE VIRTUAL LEARNING ENVIRONMENT (F174)

Kinshuk, Taiyu Lin and Paul McNab

LEARNING FROM IMAGING EXPERIENCES: VIEWING, VISUALIZATION, AND THE GENESIS OF EPISTEMOLOGICAL INTERPRETATIONS (F213)

Olga Kritskaya

WHAT DO DESIGNERS REALLY NEED? – AN EXPLORATIVE EXPERIMENT BEFORE DEVELOPING TEACHING TOOLS AND METHODS (S091)

Philipp Hutterer, Ozgur Eris, Malte Jung, Larry Leifer, Udo Lindemann and Ade Mabogunje

14:30-16:20 Session FP 15.6

Technology, Learning and Expertise
(Room Panorama)

PROTOTYPE OF CYBER ASSISTANT PROFESSOR: CAP (F046)

Hiroshi Matsuda and Yoshiaki Shindo

USING BLACKBOARD, INSTEAD OF A BLACKBOARD, IN THE CLASSROOM (F088)

Eric Weis and Jamie Efaw

CREATIVE LESSON BY USING CYBER THEATER AND CTSL LEARNING KIT (F138)

Hiroshi Matsuda and Yoshiaki Shindo

RECOGNIZING ARTICLE ERRORS BASED ON THE THREE HEAD WORDS (F180)

Ryo Nagata, Fumito Masui, Atsuo Kawai and Naoki Isu

14:30-16:40 Session FSP 15.7
Assessment Of Exploratory Learning Approaches //
Life-Long Learning
(Room Porto)

EVALUATION OF EXPLORATORY APPROACHES IN LEARNING PROBABILITY BASED ON COMPUTATIONAL MODELLING AND SIMULATION (F041)
Markus Kuhn, Ulrich Hoppe, Andreas Lingnau and Martin Fendrich
STUDENTS' TEXT-PRODUCTION METHODS WHEN LEARNING WITH THE INTERNET (S020)
Burkhard Priemer and Maria Ploog
FOSTERING PROSPECTIVE TEACHERS' ABILITIES OF LEARNING TO LEARN WITHIN AN ICT PREPARATION COURSE (F235)
Giuliana Dettori and Paola Forcheri
CONTINUING TRAINING STRATEGIES IN EUROPE (S006)
Piedade Carvalho

16:30 - 17:00 Coffee Break

17:00-18:30 POSTER SESSION
(Room Europa)

A MULTI-AGENT SYSTEM FOR STUDENT-CENTRED LEARNING
Shanghai Sun and Mike Joy
IMPLEMENTING COGNITIVE MODELLING IN CS EDUCATION: ALIGNING THEORY AND PRACTICE OF LEARNING TO PROGRAM
Des Traynor and J. Gibson
AN AUGMENTED REALITY APPLICATION FOR STUDYING ATOMIC ORBITALS: ORBITÁRIO
Jorge Trindade, Claudio Kirner and Carlos Fiolhais
PEER-SUPPORT INTERVENTION FOR EARLY READING LITERACY
Robert Janke
ALPS: BRINGING ACTIVE INQUIRY INTO ACTIVE PROBLEM SOLVING
Scott Stevens, Albert Corbett, Kenneth Koedinger, Angela Wagner, Chih-yu Chao, Harry Ulrich and Sharon Lesgold
A COMPUTATIONALLY-ENHANCED GEOBOARD
Curtis Caravone, Michael Eisenberg, Zack Sanders and Jonathan Stockh
ASSESSING TOP-DOWN AND BOTTOM-UP EFFECTS ON PERCEPTUAL LEARNING THROUGH EYE-TRACKING TECHNOLOGIES APPLIED IN VIRTUAL IMMERSION
Guillaume Albert, Patrice Renaud, Lise Renaud, Louise Sauv , Jean D carie and St phane Bouchard
ONLINE AND IN CONTEXT COLLABORATIVE LEARNING
Tang-Ho L  and Jean Roy
VIDEO ON IP EDUCATIONAL SOLUTIONS
Maria Kunnath
CAN EDUCATIONAL TECHNOLOGY FOSTER EFFECTIVE MOTIVATION TO LEARN?
Eleonora Faggiano, Gaetano La Russa, Teresa Roselli and Veronica Rossano
LEARNING WITH THE BELIFE SIMULATION TOOL: THE EFFECTS OF MANIPULATING THE TIME SCALE OF EVENTS AND COLLABORATION MODE
Nuno Otero, And  Vala, Ana Paiva and Marcelo Milrad
STRATEGY LAB
Jo o Dias

17:00-19:30 .TUTORIAL
(Room Bruxelles)

DESIGN PATTERNS FOR ADVANCED LEARNING MANAGEMENT SYSTEMS
Professor Symeon Retalis, University of Piraeus, Department of Technology Education and Digital Systems

Thursday 16th, December 2004

08:30-13:00 Welcome Desk

09:00-10:00 Session IT - Invited Talk
(Room Europa)

TECHNOLOGY-ENHANCED LEARNING: THE EUROPEAN RESEARCH AGENDA
Dr Marco Marsella, European Commission, DG Information Society, Directorate E, Unit E3 TeL

10:00-10:50 Session FSP 16.1
Assessing Progress of Learning in Complex Domains
(Room Europa)

APPROACHES TO ASSESSING THE IMPACT OF E-LEARNING ON ATTAINMENT IN THE ENGLISH FURTHER EDUCATION SECTOR (F208)
Rachel Harris, Alison Muirhead and John Hall
ASSESSING PERCEPTUAL LEARNING DYNAMICS DURING VISUAL SEARCH IN VIRTUAL IMMERSION USING EYE-TRACKING TECHNOLOGIES (S026)
Patrice Renaud, Guillaume Albert, Louise Sauv , Lise Renaud, Jean D carie and St phane Bouchard

10:00-11:10 Session FSP 16.2
Technology and Mental Models
(Room Bruxelles)

THE IMPACT OF PERSONALITY AND LEARNING STYLES ON THE USE OF LAPTOP COMPUTERS IN THE CLASSROOM (F074)
Jamie Efaw and Jennifer Bailey
A MODEL FOR NATURALISTIC VIRTUAL USER SIMULATION (S192)
Laurent Bodic, Pierre Favier and Guillaume Calvet
IMPROVING HYPERTEXT COMPREHENSION AT SCHOOL (S219)
Giovanni Fulantelli

10:00-10:40 Session FP 16.3
Technology, Learning And Expertise
(Room Madrid)

CONSTRUCTING SCORM COMPLIANT COURSE BASED ON HIGH LEVEL PETRI NETS (F211)
Jun-Ming Su, Shian-Shyong Tseng, Chia-Yu Chen and Jui-Feng Weng
THE LAB OF TOMORROW PROJECT INTRODUCING INNOVATION TO THE SCHOOL SCIENCE LABORATORY (F234)
M. Orfanakis, G. Babalis, M. Apostolakis, V. Talias, G. Stavrakis, S. Sotiriou, S. Savvas, N.K. Uzunoglu, R. Makri, M. Gargalakos and P. Tsenes

11:00 - 11:30 Coffee Break

11:30-13:00 Session FSP 16.4
Collaborative Learning
(Room Bruxelles)

TOWARD A LEARNING ORGANIZATION MODEL FOR STUDENT EMPOWERMENT: A TEACHER-DESIGNER'S EXPERIENCE AS A COACH BY THE SIDE (F027)
Kam Vat
SOCIAL INTERACTION IN MULTI-USER VIRTUAL GAME-LIKE ENVIRONMENTS (S118)
Voulgari Iro, Patsalou Theodora and Martakos Drakoulis
GROUP-ORIENTED LEARNING AND ACTIVE STUDENT PARTICIPATION IN ELECTRONIC LEARNING ENVIRONMENTS (S094)
Martin Vogel and Lothar Kreft
ASTROVERSITY - THE DEVELOPMENT OF A NETWORK LEARNING GAME THAT TEACHES COLLABORATIVE TECHNIQUES (S106)
Mary Ulicsak and Jim Turner

11:30-13:00 Session FSP 16.5
Learning Communities & Web Service Technologies
(Room Panorama)

ADAPTIVE LINK GENERATION FOR MULTIPERSPECTIVE THINKING IN WEB-BASED EXPLORATORY LEARNING (F232)
Hiroyuki Mitsuhashi, Kazuhide Kanenishi and Yoneo Yano
USER SATISFACTION AND ATTITUDES TOWARDS AN INTERNET-BASED SIMULATION (F103)
Knut Ekker
STREAMLINING VIRTUAL COMMUNICATION IN ONLINE LEARNING (S015)
Beate Baltes and Grzegorz Waligorski

11:30-13:00 Session FSP 16.6
Learner Communities and Peer-support // Collaborative Learning
(Room Madrid)

INVESTIGATING A NETWORK: ONLINE COMMUNITIES AND PEER SUPPORT (F077)
Suzanne Riverin and Elizabeth Stacey
A CASE STUDY ON RESEARCH ASSISTANT SYSTEM – FROM KNOWLEDGE MANAGEMENT PERSPECTIVE (F082)
Jin Yang and Ming Huang
COLLABORATIVE LEARNING AND ORGANIZATION CONCEPT OF VIRTUAL UNIVERSITY EDUCATION (S061)
Mirosljub Kljajić, Vardan Mkrtchian and Andrej Škraba

13:00-14:30 Lunch Break

15:00 - Departure by bus to historical village of Obidos and Conference Dinner

Friday 17th, December 2004

08:30-14:30 Welcome Desk

09:00-10:30 Session FP 17.1
Technology, Learning and Expertise
(Room Europa)

ISTART: A WEB-BASED READING STRATEGY INTERVENTION THAT IMPROVES STUDENTS' SCIENCE COMPREHENSION (F206)
Tenaha O'Reilly, Grant Sinclair and Danielle McNamara
COMPUTATIONAL LITERACY AT WORK CHILDREN'S CONSTRUCTION OF DIGITAL MATERIAL (F236)
Ylva Fernaeus, Christina Aderklou and Jakob Tholander
PROBLEM BASED LEARNING IN THE DIGITAL AGE: A CASE STUDY ON DIGITAL ENTERTAINMENT (F244)
Janet Aisbett and Greg Gibbon

09:00-11:00 Session FP 17.2
Exploratory Technologies
(Room Bruxelles)

CONNECT: DESIGNING THE CLASSROOM OF TOMORROW BY USING ADVANCED TECHNOLOGIES TO CONNECT FORMAL AND INFORMAL LEARNING ENVIRONMENTS (S315)
Sofoklis Sotiriou, Eleni Chatzichristou, Stavros Savas, Nikolaos Ouzounoglou, Lynn D. Dierking, Salmi Hannu Sakari and Avi Hoffstein, Sherman Rosenfeld, M. Gargalakos, R. Makri and P. Tsenes
TOWARDS A THEORETICAL FRAMEWORK FOR INFORMAL LANGUAGE LEARNING VIA INTERACTIVE TELEVISION (F068)
Lyn Pemberton, Sanaz Fallahkhair and Judith Masthoff
AN INVESTIGATION OF THE USE OF SIMULATIONS AND VIDEO GAMING FOR SUPPORTING EXPLORATORY LEARNING AND DEVELOPING HIGHER-ORDER COGNITIVE SKILLS (F205)
Sara Freitas and Mark Levene
COMPUTATION AND CONSTRUCTION KITS: TOWARD THE NEXT GENERATION OF TANGIBLE BUILDING MEDIA FOR CHILDREN (S107)
Michael Eisenberg, Leah Buechley, and Nwanua Elumeze
GIVING GIVING CONTEXT TO TEACHING AND LEARNING: AN EXPLICIT DEPICTION OF TOPICS, ACTIVITIES, RESOURCES AND PARTICIPANTS (S132)
David White

09:00-11:00 Session FP 17.3
Assessing Progress of Learning In Complex Domains
(Room Panorama)

MEASURING LEARNING EFFECTS OF A GAMING-SIMULATION ENVIRONMENT FOR THE DOMAIN OF KNOWLEDGE MANAGEMENT (F028)
Noor Christoph, Jacobijn Sandberg and Bob Wielinga
MODELING THE DEVELOPMENT OF SCIENTIFIC COMPETENCE IN CHEMISTRY (F173)
Ron Stevens, Amy Soller, Melanie Cooper and Marcia Sprang
IMPROVING THE STUDENT LEARNING EXPERIENCE FOR SQL USING AUTOMATIC MARKING (F187)
Gordon Russell and Andrew Cumming
THINKING ABOUT COMPLEX PROBLEMS WITH MODELING SOFTWARE: THE ROLE OF COGNITIVE STYLE AND VISUAL AND TEXTUAL REPRESENTATIONS (F189)
Charoula Angeli and Nicos Valanides

09:00-11:00 Session FSP 17.4
Pedagogical Issues Related With Learning Objects // Learning Paradigms In Academia
(Room Madrid)

DRIVING OR DRIVEN: STEERING TECHNOLOGY WITHIN AN ART & DESIGN HIGHER EDUCATION CURRICULUM (F100)
Lindsey Marshal and Lester Meachem
A TAXONOMY FOR SCENARIO-BASED ENGINEERING (F240)
Anne Lejeune and Jean-Philippe Pernin
ADDRESSING THE EFFECTIVE USE OF LEARNING OBJECTS THROUGH TEACHER EDUCATION (S079)
Mimi Recker
IMAGE ASSISTED L2 ACQUISITION WITH INTERNET (S101)
Judith Knapp, Chiara Vettori, Leonhard Voltmer, Oliver Streiter and Daniel Zielinski
MODES OF DELIVERY AND LEARNING OBJECTIVES (S230)
Jack Fei Yang

11:00-11:30 Coffee Break

**11:30-13:10 Session SP 17.5
Student-Centered Learning
(Room Europa)**

HIGH SCHOOL STUDENTS AND THE DIGITAL AGE (S133)
Paraskevi Mentzelou, Tanya Kyriakidou, Veronica Samara, Efi Petrovitsou and Konstantinos Kontogiannidis
OPEN-ENDED NAVIGATION PATH PLANNING IN SELF-DIRECTED LEARNING ON THE WEB (S263)
Shinobu Hasegawa and Akihiro Kashihara
CONCEPT-MAPPING – AN INTRODUCTION TO CONSTRUCTIONISM?(S272)
Inmaculada Sánchez and Ann Fitzgibbon
THE STOCKHOLM MODEL: A MODEL FOR TRANSITION FROM THE TRADITIONAL ADULT LEARNING CLASSROOM TO A MORE FLEXIBLE INDIVIDUAL APPROACH (S097)
Cecilia Göransson and Anneli Rydell

**11:30-13:30 Session SP 17.6
Technology, Learning and Expertise
(Room Bruxelles)**

ORGANIZING DECENTRALIZED SUPPORT FOR A VIRTUAL LEARNING ENVIRONMENT (S099)
Joke Tisaun, Herman Buelens and Jan Vanthienen
REMOTE LABORATORIES FOR TECHNOLOGICAL AND SCIENTIFIC EDUCATION (S108)
Cleonilson Souza, Lindbergue Conde, José Filho and Rafael Moreira
THE EFFECT OF TECHNOLOGY INTEGRATION ON STUDENTS' PERCEPTIONS OF LEARNING IN A GRADUATE INTRODUCTORY BUSINESS STATISTICS COURSE (S117)
Danielle Morin and Jennifer Thomas
SUPPORTING TEACHER STUDENTS USE OF INFORMATION AND COMMUNICATION TECHNOLOGY IN EDUCATION (S195)
Susanna Pöntinen and Juhani Rautopuro
COMBINING SCORM METADATA AND ACM COMPUTER CURRICULA TO CREATE AN ONTOLOGY FOR CATALOGUING LEARNING OBJECTS (S199)
Fiorella Cindio, Laura Ripamonti, Alfio Ferrara and Cristian Peraboni
FLEEBLE AGENT FRAMEWORK FOR TEACHING AN INTRODUCTORY COURSE IN AI (S224)
M. Pantic, R.J. Grootjans and R. Zwitterloot

**11:30-13:30 Session FSP 17.7
Learning Paradigms in Academia // Learning Paradigms in Corporate Sector
(Room Panorama)**

PARTICIPATORY SYSTEM DESIGN AS A TOOL FOR LEARNING (F274)
Claudia Roda
INSTRUCTIONAL SYSTEMS PRACTICES AT USA CARNEGIE ONE UNIVERSITIES (S145)
Maria Kunnath
INCA: AN INTELLIGENT COGNITIVE AGENT-BASED FRAMEWORK FOR ADAPTIVE AND INTERACTIVE LEARNING (F115)
Liana Razmerita, Thierry Nabeth, Albert Angehrn and Claudia Roda

**11:30-13:30 Session FSP 17.8
Cognition In Education
(Room Madrid)**

LEARNING WITH TECHNOLOGY: THE WAY WE THINK IN THE DIGITAL ERA (F012)
Yoram Eshet
ERRONEOUS EXAMPLES AS A SOURCE OF LEARNING IN MATHEMATICS (F086)
Erica Melis
EDITOR MUSICAL: A CASE STUDY OF INTERFACE USABILITY FOR CHILDREN (F277)
Maria Benini, Irene Ficheman, Marcelo Zuffo, Roseli Lopes and Leandro Batista
ROBO-ELC: A ROBOTIC ADAPTIVE LEARNING APPLIANCE (F292)
Gaetano La Russa and Esko Marjomaa

13:30 Closing Session (Room Europa)

Prof. Pedro Isaias, Kinshuk and Demetrios G Sampson