

**IADIS International Conference on
Cognition and Exploratory Learning in Digital Age
CELDA 2006, Barcelona Spain
CONFERENCE PROGRAM**

Friday 8 December 2006

08:30-19:30 Welcome Desk

**09:00-9:30 Session O – Opening Session
(Room: Barcelona A)**

OPENING SESSION

Prof. Pedro Isaías, Prof. Kinshuk, Prof. Demetrios G Sampson and Prof. J. Michael Spector

**09:30-10:30 Session K1 – Keynote Presentation
(Room: Barcelona A)**

A TASK-CENTERED INSTRUCTIONAL STRATEGY

Prof. David Merrill, Emeritus Professor Utah State University, Visiting Professor Florida State University, USA

10:30-11:00 Coffee Break

**11:00-12:30 Session FP 8.1 - Exploratory Technologies
(Room: Barcelona A)**

DESIGNING PDA MEDIATED EDUCATIONAL ACTIVITIES FOR A MUSEUM VISIT (F145)

Ioanna Papadimitriou, Vassilis Komis, Nikolaos Tselios and Nikolaos Avouris

TOWARD AMBIENT PROGRAMMING FOR CHILDREN (F112)

Nwanua Elumeze and Michael Eisenberg

ECOOLOGY: AN EMOTIONAL AUGMENTED REALITY EDUTAINMENT APPLICATION (F175)

Raquel Acosta, Jose M. Esteve, Jose A. Mocholí and Javier Jaén

**11:00-12:30 Session FSP 8.2 - Technology, Learning and Expertise
(Room: Sants)**

REFLECTIONS ON THE POSSIBILITIES AND CHALLENGES OF M-GUIDANCE IN THE CONTEXT OF INTERNATIONAL INTERNSHIP (F127)

Riina Kleimola, Irja Leppisaari, Pentti Impiö and Ismo Hakala

PERCEPTIONS OF QUALITIES, ROLES, AND FUNCTIONS: THE ONLINE TEACHER PERSPECTIVE (F187)

Maria D. Avgerinou and Carina Andersson

CONCEPTUAL MODELLING OF EDUCATIONAL THEORIES: AN ONTOLOGICAL APPROACH (F010)

Balbir S. Barn

**11:00-12:0 Session FSP 8.3 – Cognition in Education // Educational Psychology
(Room: Montjuic)**

FACTORS AFFECTING ONLINE LEARNING (S028)

Dennis Kira and Raafat Saade

PROMOTING REFLECTION IN NOVICE PROGRAMMERS USING A METACOGNITIVE INTERFACE WITH LEARNING OBJECTS (S064)

Eileen Costelloe, Elizabeth Sherry, Patricia Magee and Morag Munro

NAVIGATION AND LEARNING IN EDUCATIONAL HYPERMEDIA: ARE POOR READERS AT A DISADVANTAGE? (S141)

Patricia M. Boechler, Ilya Levner, Lindsey Leenaars and Dorothy J. Steffler

12:30-14:00 Lunch Break

14:00-16:00 Session FP 8.4 - Assessing Progress Of Learning In Complex Domains

(Room: Barcelona A)

LEARNING FROM THE WEB: ANALYSES THE INCIDENCE OF AN INSTRUCTIONAL APPROACH TO IMPROVE SECONDARY STUDENTS' WEB PERFORMANCE (F103)

Manoli Pifarré, Ingrid Martorell and Susana Gòdia

LEARNER INVOLVEMENT IN INSTRUCTION ON A COMPLEX COGNITIVE TASK: APPLICATION OF A COMPOSITE MEASURE OF PERFORMANCE AND MENTAL EFFORT (F014)

A. Aubteen Darabi and David W. Nelson

AN EMPIRICAL APPROACH TO EVALUATE STUDENTS PARTICIPATION IN FREE/OPEN SOURCE SOFTWARE PROJECTS (S026)

Sulayman K. Sowe

DESIGN CONCEPT OF "SOUNDING BOARD" A HANDHELD DEVICE FOR PEER ASSESSMENT (S096)

Hiroshi Kato, Jun Yamashita, Toshiaki Ichimaru and Hideyuki Suzuki

STATISTICAL TOOLS TO ENHANCE PEER-REVIEW PROCESSES IN LARGE GROUPS (S156)

Joan Codina and Josep M. Fontana

14:00-16:10 Session FSP 8.5 – Learning Paradigms in Academia

(Room: Sants)

A CASE STUDY OF CONSTRUCTIVIST LEARNING IN A TEACHER EDUCATION CLASS (F097)

Madalina Tanase

ENHANCING STUDENT LEARNING USING ASYNCHRONOUS E-LEARNING PLATFORMS (F130)

Katerina Georgouli, Ioanna Kantzavelou, Pedro Guerreiro and Christos Koilias

TRANSFORMATIVE PATHWAYS: INCLUSIVE PEDAGOGIES IN LEARNING AND TEACHING (F173)

Marcelle Cacciattolo, Eva Dakich, Mary C Dalmau, Anne Davies, Hafdis Guðjónsdóttir and Claire Kelly

LESSONS LEARNED FROM A PRACTICE ENTERPRISE PROJECT SUPPORTED WITH A VIRTUAL BANKING SYSTEM (S055)

Mikael Collan

INTERNATIONAL MOBILITY: CULTURAL VARIATIONS IN LEARNING STYLES AND PEDAGOGICAL SUPPORT (S100)

Helen Keegan and Audrone Valiuskeviciute

14:00-16:00 Session FSP 8.6 – Collaborative Learning

(Room: Montjuic)

CHAT DEBATE AND ARGUMENT DIAGRAMS IN COMPUTER-BASED COLLABORATIVE LEARNING (F061)

Miika Marttunen and Leena Laurinen

EXPLORING ONLINE COLLABORATION – AN ETHNOGRAPHIC ANALYSIS OF CHAT GROUPS AND DISCUSSION FORUMS (F109)

Ray Archee

MEDIA CHOICE AND TEAMWORK IN A BLENDED LEARNING COURSE (S078)

Kathrin Figl

DIFFERENCES OF ONLINE AND FACE-TO-FACE PEER REVIEWS REGARDING TYPE AND QUALITY (S089)

Christine Bauer and Kathrin Figl

COLLABORATIVE LEARNING IN MOBILE ENVIRONMENT (S189)

Martin Klima, Ladislav Cmolik and Pavel Slavik

16:00 - 16:30 Coffee Break

16:30-17:30 Session IT - Invited Talk

(Room: Barcelona A)

TECHNOLOGY-ENHANCED LEARNING: RESEARCH ACTIVITIES CO-FUNDED BY THE EUROPEAN UNION - PAST, PRESENT AND FUTURE.

Dr Marco Marsella, European Commission, DG Information Society, Directorate E, Unit E3

17:30-20:00 TUTORIAL

(Room: Barcelona A)

SUPPORTING AND ASSESSING LEARNING IN COMPLEX PROBLEM DOMAINS: PERSPECTIVES FROM COGNITIVE SCIENCE AND EDUCATIONAL TECHNOLOGY

Professor J. Michael Spector, Florida State University, USA

Saturday 9, December 2006

08:30-15:30 Welcome Desk

09:00-11:10 Session FSP 9.1 - Assessment Of Exploratory Learning Approaches // Assessment Of Exploratory Technologies
(Room: Sants)

ACQUISITION OF EXPERTISE IN COMPLEX KNOWLEDGE DOMAINS (F069)

Timo Lainema and Kirsi Lainema

EXPLORING SYNCHRONOUS LEARNING MANAGEMENT SYSTEMS: A CONCEPTUAL DESIGN AND DEVELOPMENT MODEL (F108)

Mahnaz Moallem

AN INVESTIGATIVE STUDY: PERSPECTIVES ON SCIENTIFICALLY BASED RESEARCH IN EDUCATIONAL TECHNOLOGY (F012)

Lynne Schrum and Kelly f Glassett

EXAMINING THE EFFECTS OF ELECTRONIC MENTORING PROMPTS ON LEARNERS' SCIENTIFIC REASONING SKILLS IN A TEXT-BASED ONLINE CONFERENCE FOR SCIENCE EDUCATION (S023)

Charoula Angeli and Nicos Valanides

ASSESSMENT OF STUDENT ATTITUDES TOWARDS A UNIVERSITY LAPTOP LEARNING ENVIRONMENT (S018)

Franklyn I. Prescod and Deborah Fels

09:00-11:10 Session FSP 9.2 – Student-centered Learning

(Room: Montjuic)

EVALUATING THE EFFECTS OF CSA - COOPERATIVE STUDENT ASSESSMENT ON LEARNING (F022)

Pierpaolo Di Bitonto, Antonella Grasso and Teresa Roselli

TESTING A NEW TOOL FOR COMPETENCE SELF-EVALUATION AND DEVELOPMENT: STUDENTS AS PROJECT MANAGERS (F120)

Andrea Bikfalvi, Josep Llach Pagès, Pilar Marquès Gou, Jussi Kantola and Hannu Vanharanta

A DUAL DEVICE SCENARIO FOR DIGITAL STUDENTS –DIMPLE (F179)

Diana Andone, Jon Dron and Lyn Pemberton

FROM KEY COMPETENCES TO E-LEARNING SYSTEMS DESIGN (S106)

Kamila Olševičová and Peter Mikulecký

CONSTRUCTIONIST TEACHING IN THE DIGITAL AGE – A CASE STUDY (S185)

Éric Bel and Myriam Mallet

09:00-11:10 Session FSP 9.3 – Cognition in Education // Acquisition of Expertise

(Room : Serriá)

EFFECTS OF LEARNER MISCONCEPTIONS ON LEARNING (F066)

Eshaa M. Alkhalifa

THE 'PARADOX OF KNOWLEDGE STRUCTURE': IMPLICATIONS FOR LEARNING TO SOLVE ILL-STRUCTURED PROBLEMS (F085)

Slavi Stoyanov and Paul Kirschner

TOWARDS DESIGN TUTORING SYSTEMS: MODELING TUTORIAL DISCOURSE IN ARCHITECTURAL DESIGN REVISION SESSIONS (F032)

Mario De Grassi, Alberto Giretti, Roberta Ansuini, Tommaso Leo and Manuela De Angelis

USING VIDEO GAMES AS AN EDUCATIONAL TOOL IN PRO-SOCIAL RELATIONSHIPS WITH CHILDREN AND ADOLESCENTS (S090)

Paloma Díaz Soloaga

A METHODOLOGY TO DETERMINE AN AGENT'S PROCEDURAL KNOWLEDGE (S092)

Gilbert Ndjatou

09:00-11:00 Session Reflection Papers 9.4

(Room : Sant Gervasi)

RESEARCH ON TEACHING COGNITION IN TEACHERS IN PHYSICAL EDUCATION – COMPARISON OF RECURRING COGNITION USING A CCD CAMERA BETWEEN EXPERIENCED TEACHERS AND BEGINNING TEACHERS (R095)

Yasuyuki Nishihara and Takashi Ikuta

MOTIVATION – INCLUDED OR EXCLUDED FROM E-LEARNING (R101)

Mihaela Cocea and Stephan Weibelzahl

WEB SEARCHING FOR LEARNING: OBSERVING WEB USERS WORKING OUT AN INFORMATION PROBLEM (R123)

Francesco Caviglia and Maria Ferraris

VIRTUAL CENTRE FOR EDUCATORS OF SENIORS (R133)

Bozena Mannova and Josef Bicik

DEVELOPING AN ASSESSMENT OF DIGITAL LITERACY SKILLS: DEFINITION OF THE STUDENT MODEL (R134)

Kimberly Lawless, Kimberly Gomez, Susan R. Goldman and Meryl Bertenthal

FACING LANGUAGE HETEROGENEITY: DO PLURILINGUAL LEARNING AND ASSESSMENT ENVIRONMENTS CREATE BETTER RESULTS? (R154)

Reichert Monique, Martin Romain

WIKIS AS AN ASSESSMENT TOOL FOR MEASURING THE DEVELOPMENT OF SHARED CONCEPTUAL MODELS (R158)

Paul Flowers and Kristina Wieland

ANYTHING BUT ORDINARY: USING BASIC TECHNOLOGIES AND LEARNING OBJECTS TO TEACH ONLINE PIANO PEDAGOGY (R159)

Mary I. Ingraham

**BOLOGNA DECLARATION AND ICT TEACHING IN COMPUTER SCIENCE ADMINISTRATION COURSES CONTEXT:
REFLECTIONS FOR EXCELLENCY (R164)**

Maria de Fátima Gonçalves and Isabel Pedrosa

APPROACHES TO LIFE LONG LEARNING BY USING ONLINE TOOLS (R180)

Radu Vasiliu, Diana Andone, Marian Bucos and Mihai Onita

DEVELOPMENT OF A CSCL CHAT TOOL WHICH DISPLAYS LEARNERS' TYPING PROCESS (R186)

W. Tsukahara, S. Akamatsu, K. Sakurada and T. Okamoto

ADAPTIVE LEARNING ENVIRONMENTS TO OVERCOME CULTURAL AND LANGUAGE BARRIERS TO LEARNING (R084)

Marie-Luce Bourguet, Benita Cox, Craig Stewart and David Lefevre

11:00-11:30 Coffee Break

11:30-12:30 Session K2 – Keynote Presentation

(Room: Barcelona A)

VIDEOGAMES AND THE DESIGN OF STUDENT-CENTERED LEARNING ENVIRONMENTS

Professor Begoña Gros, Universidad de Barcelona, Spain

12:30-14:00 Lunch Break

14:00-15:00 Workshop

(Room: Barcelona A)

EXPLOITING MOBILE AND WIRELESS TECHNOLOGIES ON VOCATIONAL TRAINING

By Professor Demetrios Sampson, Department of Technology Education and Digital Systems, University of Piraeus, Greece, and Advanced e-Services for the Knowledge Society Research Unit, Informatics and Telematics Institute, Centre for Research and Technology Hellas, Greece

14:00-15:00 Session FSP 9.5 – Cognition in Education // Acquisition of Expertise

(Room: Sants)

IMPROVING GEOMETRY BY USING DIALOGICAL HYPERMEDIA TOOLS. A CASE STUDY (F104)

Joaquín Giménez and Núria Rosich

SPECIFYING PERSONALIZED EXPERTISE (F195)

Edward Pogossian

14:00-15:00 Session FP 9.6 - Technology, Learning and Expertise

(Room: Montjuic)

REPRESENTATION OF MISCONCEPTIONS (F129)

Erica Melis and Giorgi Gogvadze

ETER A REPOSITORY TO DESCRIBE AND SHARE TEACHING EXPERIENCES (F176)

Pierpaolo Di Bitonto, Teresa Roselli and Veronica Rossano

15:30 Departure to the Tour and Conference Dinner

From the Hotel Barcelo Sants we drive to Plaza de Espanya to see the Bullring, the Miro Park and the Fair area of Barcelona on the way to Montjuich. Olympic ring and the best views of Barcelona from the Mirador del Alcalde. Commercial port, Columbus Column, Old Port, Gothic Quarter panoramic from the bus with the sea front and the narrow alleys, arrival at Plaza Catalunya and Paseo de Gracia with the Houses Batllo and Mila. Sagrada Familia outside and Guell Park.

The Conference Dinner will be held at the Asador de Aranda.

Sunday 10, December 2006

08:30-13:30 Welcome Desk

09:00-10:00 Session K3 – Keynote Presentation

MOBILE LEARNING: AN ECOLOGICAL ANALYSIS

Professor Elliot Soloway, Arthur F. Thurnau Professor, University of Michigan, USA and Professor Cathie Norris, University of North Texas in Denton, USA

10:00-11:00 Session FP 10.1 - Technology and Mental Models

(Room: Barcelona A)

INVESTIGATING MEANS TO REDUCE COGNITIVE LOAD FROM ANIMATIONS (F067)

S. Guttormsen Schär and P. G. Zimmermann

REPRESENTATIVE CHARACTERISTICS OF FELDER-SILVERMAN LEARNING STYLES: AN EMPIRICAL MODEL (F191)

Sabine Graf, Silvia Rita Viola, Kinshuk and Tommaso Leo

10:10-11:00 Session SP 10.2 – Technology, Learning and Expertise

(Room: Sants)

DOMUS TUTOR: A CBR TUTORING AGENT FOR STUDENT SUPPORT (S062)

Paulo A. Alves, Luis Amaral and José A. Pires

THE AIM SYSTEM: A TOOL FOR DESIGNING AND SUPPORTING TEACHER EDUCATION AND PROFESSIONAL DEVELOPMENT IN MULTIPLE AREAS OF TEACHING, LEARNING & ASSESSMENT (S135)

James W. Pellegrino, Susan R. Goldman, Matthew Brown and Kimberly Lawless

EXAMINING THE IMPACT OF EDUCATIONAL TECHNOLOGY KNOWLEDGE ON ATTITUDES AND BEHAVIORS (S165)

Lori B. Holcomb

10:00-11:20 Session FSP 10.3 - Life-long Learning

(Room: Montjuic)

MEMONOTE, AN ANNOTATION-BASED PERSONAL KNOWLEDGE MANAGEMENT TOOL FOR TEACHERS (F172)

Faical Azouaou and Cyrille Desmoulin

PRECODEM, AN EXAMPLE OF TAO IN SERVICE OF EMPLOYMENT (F146)

Jadoul Raynald And Mizohata Sachié

THE ROLE OF ADULT EDUCATOR IN THE CONTEXT OF LIFELONG LEARNING (S107)

Giedra Linkaityte, Audrone Valiuskeviciute and Lineta Zilinskaite

11:00-11:30 Coffee Break

11:30-13:00 Session FSP 10.4 – Just-in-time and Learning-on-demand

(Room: Barcelona A)

UBIQUITOUS LEARNING SYSTEM FEATURING USER-ADAPTIVE TEACHING STRATEGY (F075)

Yoshitaka Fujiwara, Hideki Yoshida, Yasunari Maeda, Tomoki Suzuki and Shin-ichiro Okada

ACTIVITY BASED TRAINING FOR JUST-IN-TIME TRANSFER OF KNOWLEDGE TO COMPANIES (S137)

John B. Stav and Erik Eng

TAKING A SERVICE-CENTERED VIEW ON E-LEARNING (S149)

Aki Lassila and Päivi Pöyry

BROADCAST VOICE MESSAGING: A NEW MEDIUM OF COMMUNICATION (S110)

Ray Archee

11:30-13:20 Session FSP 10.5 – Collaborative Learning // Learner Communities And Peer-support

(Room: Sants)

IMPROVING DISCURSIVE NEGOTIATION IN WEB BASED DISCUSSION FORUMS (F113)

Chiara Moroni, Øyvind Smestad and Kinshuk

PEER TO PEER LEARNING FOR PUBLIC ADMINISTRATIONS: A DESIGN CASE (S088)

Linda Napoletano, Giulio Toccafondi, Jevon Brunk and Gabriele Molari

SUPPORTING COLLABORATIVE CONSTRUCTION OF PERSUASION-LOGIC FOR PRESENTATIONS THROUGH “CARTOON SUMMARIZATION (S119)

Hideyuki Suzuki and Hiroshi Kato

INDICATORS FOR MEASURING QUALITY IN ASYNCHRONOUS DISCUSSION FORAE (S138)

Tharrenos Bratitsis and Angelique Dimitracopoulou

WIKIS AS ONLINE COLLABORATION TOOL: AN EXPLORATORY STUDY IN A HYBRID LEARNING ENVIRONMENT (S153)

Kristina Wieland, Paul Flowers and Daniel Behnke

**11:30-13:00 Session FSP 10.6 – Virtual University
(Room: Montjuic)**

ASSESSING PRESENCE: USING POSITIONING THEORY TO EXAMINE INSTRUCTOR PARTICIPATION AND PERSONA IN ONLINE DISCOURSE (F182)

Vanessa Paz Dennen

STUDENTS PREFER ONLINE EXAMS (S035)

Jonne Miettunen

A FRAMEWORK FOR THE IMPLEMENTATION OF AN EDUCATION ENVIRONMENT BASED ON METADATA (S080)

Victoria Myroni and Andreas Pombortsis

PROGRAM TESTING IN A SELF-ASSESSMENT SYSTEM THROUGH INTERNET (S131)

Anthony Santiago Tapia Fernández, A. García-Beltrán and Raquel Martínez Fernández

13:20 Closing Session (Room: Barcelona A)

Prof. Pedro Isaías, Prof. Kinshuk, Prof. Demetrios G Sampson and Prof. J. Michael Spector