

**IADIS International Conference on  
Cognition and Exploratory Learning in Digital Age  
CELDA 2007, Algarve, Portugal  
CONFERENCE PROGRAM**

**Friday 7 December 2007**

**08:00-17:00 Welcome Desk**

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

**OPENING SESSION**

*Prof. Pedro Isaías, Prof. Kinshuk and Prof. J. Michael Spector*

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

**EDUCATION MYTH BUSTING: EDUCATION IS NOT A QUESTION OF BELIEF, I BELIEVE!**

*Prof. Paul A. Kirschner, Professor of Educational Psychology and ICT / Chair of the Research Centre Learning in Interaction, Universiteit Utrecht, The Netherlands*

**10:30-11:00 Coffee Break**

**11:00-12:40 Session FSP 7.1 - Collaborative Learning // Assessment of Exploratory Learning Approaches  
(Room: Carvoeiro)**

**Chair: Charoula Angeli**

**ANALYSIS OF CROSS-CULTURAL ONLINE COLLABORATIVE FACILITATION (F068)**

*Effie Lai-Chong Law and Anh Vu Nguyen-Ngoc*

**TEACHING AND LEARNING OF DIGITAL VISUAL EFFECTS THROUGH PROBLEM-BASED LEARNING (F043)**

*Lynn-Sze Ng, Yan Peng Lim, Ah Choo Koo and Muhamad Ayman*

**COMPUTER-SUPPORTED ROLE-PLAYS FOR TEACHING CORE INTERNET CONCEPTS (S072)**

*Frank Thorsten Breuer*

**COMMUNICATION AND COLLABORATION IN EDUCATIONAL MULTIPLAYER MOBILE GAMES (S114)**

*Ekaterina Kuts, Carolina Islas Sedano, Adele Botha and Erkki Sutinen*

**11:00-12:30 Session FSP 7.2 - Virtual University  
(Room: Algar Seco)**

**Chair: Lynne Schrum**

**EDUCATIONAL INSTANT MESSAGING IN A 3D ENVIRONMENT (F061)**

*Anna Puig-Centelles, Oscar Ripolles, Pablo Prades and Miguel Chover*

**MEASURING STUDENT PARTICIPATION AND EFFORT (S099)**

*Ian Douglas and Nicole D. Alemagne*

**MILLENNIALS AND ONLINE LEARNING: IDENTIFYING BARRIERS AND FACILITATORS FOR RESEARCH (S138)**

*Cynthia P. Ruppel, Thomas E. Griffin and Cheryl Torok Fleming*

**ECONOMIC EDUCATION AND INTERNET EVIDENCE FROM ONE UNIVERSITY SURVEY (S147)**

*Elsa Fontainha*

**11:00-12:40 Session FSP 7.3 – Life-long Learning // Pedagogical Issues Related With Learning Objects  
(Room: Alfanzina)**

**Chair: Cindy Hmelo-Silver**

**GUIDING THE ELDERLY INTO THE USE OF COMPUTERS AND INTERNET – LESSONS TAUGHT AND LEARNT (F033)**

*Minnamari Naumanen and Markku Tukiainen*

**DEVELOPING INTERACTIVE EDUCATIONAL ENVIRONMENTS TO STIMULATE LIFELONG LEARNING (F136)**

*Jorge F. Franco, Sandra R. R. Cruz, Edna Aquino, Edna O. Teles, Márcia Santiago and Irene Karaguilla Ficheman*

**USING SHAREABLE MULTIMEDIA LEARNING OBJECTS TO ENHANCE AND TRANSFORM THE CURRICULUM (S060)**

*Niall MacKenzie and Andrew Walsh*

**BUILDING A MYSTERY: ONLINE PIANO PEDAGOGY AND THE INTANGIBLES OF MUSICIANSHIP (S071)**

*Mary I Ingraham and Janet Scott Hoyt*

**12:30-14:00 Lunch Break**

**14:00-15:30 Session FSP 7.4 - Exploratory Technologies // Assessment of Exploratory Technologies**

**(Room: Carvoeiro)**

**Chair: Stylianos Hatzipanagos**

**USING ITERATIVE DESIGN AND DEVELOPMENT FOR MOBILE LEARNING SYSTEMS IN SCHOOL PROJECTS (F034)**

*André Melzer, Lia Hadley, Marie Glasemann, Simon Werner, Thomas Winkler and Michael Herczeg*

**MOBILE APPLICATION FOR MOBILE LEARNING (S115)**

*Galit Botze and Michal Yerushalmy*

**EFFECTS OF MOTIVATIONAL AND VOLITIONAL MESSAGES ON ATTITUDES TOWARD ENGINEERING: COMPARING TEXT MESSAGES WITH ANIMATED MESSAGES DELIVERED BY A PEDAGOGICAL AGENT(S032)**

*ChanMin Kim, John M. Keller and Amy L. Baylor*

**TEACHING CHILDREN PROGRAMMING ON-LINE: CONCRETE STRATEGY FOR LIFE-LONG LEARNING (S021)**

*Janka Pekárová*

**14:00-15:30 Session FSP 7.5 – Assessing Progress of Learning In Complex Domains**

**(Room: Algar Seco)**

**Chair: Angelique Dimitracopoulou**

**ITEST: A WEB APPLICATION FOR LEARNER-DIRECTED ASSESSMENT IN ALL LEVELS, SUPPORTING MATHEMATICAL FORMULA AND MULTIMEDIA FILES (F054)**

*Nuria Joglar, José Manuel Colmenar, Diego Martín, Rubén Sánchez, José Luis Risco, José Ignacio Hidalgo and Alberto Díaz*

**COMPUTER BASED ASSESSMENT (CBA): A LONG WAY TO INNOVATION (S039)**

*Sisse Guttormsen Schär and Rainer Hofer*

**ASSESSMENT OF COMPLEX LEARNING TASKS: A DESIGN MODEL (S088)**

*Mahnaz Moallem*

**EDUCATIONAL SOFTWARE IN PHYSICS TEACHING: QUANTITATIVE AND QUALITATIVE ANALYSIS (S066)**

*Renato Heineck, Eliane Regina de Almeida Valiati and Cleci Werner da Rosa*

**15:45-16:45 Session PN - Panel**

**(Room: Carvoeiro)**

**PROBLEM-ORIENTED LEARNING: PREPARING LIFELONG LEARNERS IN THE DIGITAL AGE**

*Prof. Cindy Hmelo-Silver, J. Michael Spector, Paul Horwitz, John Savery and M. Carolina DaCosta*

**17:15 Departure to the Conference Dinner**

**Saturday 8, December 2007**

**08:30-19:30 Welcome Desk**

**09:00-11:00 Session FSP 8.1 - Collaborative Learning // Learner Communities and Peer-support**

**(Room: Carvoeiro)**

**Chair: Mahnaz Moallem**

**LEARNING COMMUNITIES IN OPEN SOURCE PROJECTS (F126)**

*Giulio Concas, Manuela Lisci, Sandro Pinna, Guido Porruvecchio and Selene Uras*

**BRAIDED LEARNING: DEVELOPMENTS IN AN ONLINE COMMUNITY OF PRACTICE (F058)**

*Christina Preston and John Cuthell*

**VIRTUAL PEER MENTORING: CAN WE CREATE A COMMUNITY OF PEER -SUPPORTED LEARNERS? (S017)**

*Pat Gannon-Leary, Cate Watson and Joanne Smailes*

**ONGOING ONLINE PROCESS: TUTOR'S CHALLENGES (S105)**

*Paula Peres and Ana Azevedo*

**THE ACTOR-NETWORK THEORY AND MOODLE IN AN HIGH SCHOOL COMMUNITY - A STRATEGICAL TOOL AND A LIFE-LONG LEARNING APPROACH (S137)**

*Isabel Pedrosa and Carla Sousa*

**09:00-11:00 Session FP 8.2 – Cognition in Education**

**(Room: Algar Seco)**

**Chair: Tracey Leacock**

**HOW STUDENTS EVALUATE CREDIBILITY AND RELEVANCE OF INFORMATION ON THE INTERNET? (F037)**

*Carita Kiili, Leena Laurinen and Miika Marttunen*

**CHANGING FOCUS FROM GROUP TO INDIVIDUAL: USING AN AUTOMATED TOOL TO MEASURE EVIDENCE OF CRITICAL THINKING IN DISCUSSION FORUMS (F110)**

*Stephen Corich, Kinshuk and Lynn M. Jeffrey*

**AUTOMATIC STUDENT MODELLING FOR DETECTING LEARNING STYLE PREFERENCES IN LEARNING MANAGEMENT SYSTEMS (F148)**

*Sabine Graf, Silvia Rita Viola and Kinshuk*

**AN EXPLORATORY STUDY OF THE ROLE OF EPISTEMOLOGICAL BELIEFS ON LEARNERS' SOLO AND DUO THINKING ABOUT AN ILL-DEFINED ISSUE (F012)**

*Charoula Angeli and Nicos Valanides*

**09:00-11:00 Session FSP 8.3 – Technology, Learning and Expertise**

**(Room : Alfanzina)**

**Chair: Alke Martens**

**EFFECTS OF LAPTOP ON MALAYSIAN SCIENCE TEACHERS' PEDAGOGICAL ROLES, USE AND PERCEIVED USEFULNESS OF COMPUTER TECHNOLOGY (F057)**

*Wong Su Luan, Shahril Sabudin, Nor Hayati Alwi, Ahmad Fauzi Mohd Ayub and Hanafi Atan*

**DESIGNING EMERGENCY RESPONSE TRAINING: SEVEN WAYS TO REDUCE STRESS (F139)**

*Julie-Ann Sime*

**PRAGMATIC CHARACTERIZATION OF LEARNING OBJECTS (S111)**

*I. Azevedo, C. Vaz de Carvalho and E. Carrapatoso*

**THE PIANO GAME: USING LOW COST LAPTOPS FOR MUSIC EDUCATION (S121)**

*Nathalia Sautchuk Patrício, Irene Karaguilla Ficheman and Roseli de Deus Lopes*

**TECHNOLOGY AND PEDAGOGICAL BELIEFS OF TEACHERS, A CROSS CASE ANALYSIS (S079)**

*Kelly F. Glassett*

**11:00-11:30 Coffee Break**

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

**(Room: Carvoeiro)**

**COMPUTER BASED INTERACTION ANALYSIS SUPPORTING SELF-REGULATION: ACHIEVEMENTS AND PROSPECTS OF NA EMERGING RESEARCH FIELD**

*Prof. Angelique Dimitracopoulou, Professor, LTEE Laboratory, University of the Aegean, Greece*

**12:30-14:00 Lunch Break**

**14:00-16:20 Session FSP 8.4 – Educational Psychology // Learning Paradigms in Corporate Sector**

**(Room: Carvoeiro)**

**Chair: John Savery**

**TEACHING-LEARNING ONLINE STRATEGIES: CONCEPTUAL CHANGE AND NEGOTIATION (F122)**

*Paola Nicolini, Chiara Moroni, Tamara Lapucci and Kinshuk*

**EVALUATING THE SIGNIFICANCE OF COGNITIVE AND EMOTIONAL PARAMETERS IN E-LEARNING ADAPTIVE ENVIRONMENTS (F040)**

*Nikos Tsianos, Panagiotis Germanakos, Zacharias Lekkas, Constantinos Mourlas and George Samaras*

**SCAFFOLDING THE REVISION OF SUMMARIES WITH GSTUDY SOFTWARE (F069)**

*Tracey L. Leacock and Carmen L. Z. Gress*

**VIDEO-DRIVEN, MULTIMEDIA, WEB-BASED TRAINING IN THE CORPORATE SECTOR: PEDAGOGICAL EQUIVALENCE AND COMPONENT EFFECTIVENESS (F103)**

*Katherine Pang*

**ALIGNING RESEARCH, EDUCATION AND INDUSTRY PRACTICE (S030)**

*Anthony Williams and Willy Sher*

**14:00-16:30 Session FSP 8.5 - Student-centered Learning**

**(Room: Algar Seco)**

**Chair: Hans-Werner Sehring**

**LEARNING MATHEMATICS WITH INTERACTIVE DIAGRAMS (F102)**

*Michal Yerushalm and Elena Naftaliev*

**DESIGN AND IMPLEMENTATION OF AN ONLINE VOCABULARY TEST MANAGER ON PODBASE (F120)**

*Masatoshi Ishikawa, Kazunori Hasegawa, Satoko Amemiya, Keiichi Kaneko, Haruko Miyakoda and Wataru Tsukahara*

**EVALUATION OF THE DIGITAL STUDENTS AND DIMPLE (F140)**

*Diana Andone, Jon Dron and Lyn Pemberton*

**TECHNOLOGY-RICH CLASSROOM ENVIRONMENTS AND STUDENT ACHIEVEMENT: A TWO YEAR IMPLEMENTATION PROJECT (S014)**

*Lynne Schrum and Kelly F. Glassett*

**A TOOL TO THE EVALUATION AND STATISTICAL ANALYSIS OF THE RESULTS ADAPTED TO THE EAHE (S130)**

*S. Sanz Lumbier, S. Sanz Santamaría, J. Gutiérrez Serrano and J. Á. Vadillo Zorita*

**FROM INFORMATION TO KNOWLEDGE: METADATA FOR ARCHITECTURAL CONTENT IN EUROPE (F049)**

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

**14:00-16:15 Session Reflection Papers 8.6**

**(Room: Alfanzina)**

**Chair: Kinshuk**

**DEVELOPING INTERACTIVE COMPUTER-BASED LEARNING EXPERIENCES TO IMPROVE SPATIAL ABILITY (R025)**

*Anthony Williams and Ken Sutton*

**ASSESSING ACADEMIC ACHIEVEMENT AND ACQUISITION OF EXPERTISE IN AN AGILE DEVELOPMENT ENVIRONMENT (R052)**

*Samia Oussena and Bruce Laurie*

**A COMPUTER SUPPORTED COLLABORATION LEARNING ENVIRONMENT FOR SOCIAL STUDY CURRICULUM IN ELEMENTARY SCHOOL (R097)**

*Yen-Ling Chang and Kuo-Hung Huang*

**HOW CAN A VIRTUAL LEARNING ENVIRONMENT ENHANCE STUDENT LEARNING? (R018)**

*Pat Gannon-Leary and Chris Turnock*

**RESEARCH RESPECTING THE EXPERTISE OF PHYSICAL EDUCATION INSTRUCTORS – FOCUSING ON THE COGNITION EXHIBITED BY EXPERT INSTRUCTORS DURING LESSONS (R031)**

*Yasuyuki Nishihara and Takashi Ikuta*

**COMPUTER-AIDED EFL: EXPERIENCING WRITING IN THE DIGITAL WORLD (R087)**

*Eusebia-Iris Muresan*

**WEB SEEKING EXPERTISE: A REVIEW OF THE KEY FACTORS AND A PROPOSAL FOR EFFICIENT EDUCATIONAL METHODOLOGIES (R048)**

*Maria Jose Hernandez Serrano, Barbara Jones and Margarita Gonzalez Sanchez*

**EXPLORING THE POTENTIAL AND PITFALLS OF SECOND LIFE APPLICATIONS FOR K-12 CLASSROOMS (R124)**

*Claudia Huff, Jessica Pater, Sue Dowling and Mindy DiSalvo*

**16:30-17:00 Coffee Break**

**17:00-19:30 TUTORIAL**

**(Room: Carvoeiro)**

**STORYTELLING AND STORY ANALYSIS: MECHANISMS FOR ASSESSING INDIVIDUAL AND TEAM COMPETENCIES**

*Paul Barach, MD, MPH, Professor (visiting), Department of Anesthesiology and Epidemiology, Utrecht University Medical Center, Utrecht, NL and Julie Johnson, PhD, Assistant Professor, Department of Medicine, University of Chicago, Director Research, American Board of Medical Specialties, USA*

**Sunday 9, December 2007**

**08:30-13:30 Welcome Desk**

**9:00-10:50 Session FSP 9.1 - Exploratory Technologies**

**(Room: Carvoeiro)**

**Chair: Ian Douglas**

**NOTE TAKING WITH GYM2LEARN: HELPING STUDENTS USE ONLINE TEXT COMPREHENSION STRATEGIES (F119)**

*Gianluca Merlo, Luciano Seta, Simona Ottaviano, Antonella Chifari, Giuseppe Chiazzese, Mario Allegra and Giovanni Todaro*

**MOBILE – MOBILE TECHNOLOGY ACCESS FOR AFRICA (F128)**

*Adele Botha, Meryll Ford, Francois Aucamp and Erkki Sutirrn*

**DEVELOPMENT OF A PLATFORM DEDICATED TO COLLABORATION IN THE SOCIAL SCIENCES (F082)**

*Jadoul Raynald and Mizohata Sachie*

**DESIGNING FOR LEARNING IN 3-D VIRTUAL WORLDS: THE UNIVERSITY OF PLYMOUTH SEXUAL HEALTH SIM EXPERIENCE IN SECOND LIFE (S113)**

*Maged N. Kamel Boulos, Steve Wheeler and Susan Toth-Cohen*

**9:00-11:00 Session FP 9.2 – Collaborative Learning**

**(Room: Algar Seco)**

**Chair: John Cuthell**

**COLLABORATIVE ARGUMENT DIAGRAMS BASED ON DYADIC COMPUTER CHAT DISCUSSIONS (F016)**

*Timo Salminen, Miika Marttunen and Leena Laurinen*

**A THEORETICAL PROPOSAL OF LEARNING COMMUNITIES MANAGEMENT THROUGH THE ANALYSIS OF THE ORGANIZATIONAL BLOGOSPHERE (F038)**

*Luigi Lella, Ester Torresi, Juri Orazi, Michele Campanelli and Vera Stara*

**ONLINE FORUMS IN PRE-SERVICE TEACHERS' TRAINING: TRACING PROFESSIONAL DEVELOPMENT IN DISCOURSE (F053)**

*Nicole Clouet and Dominique Roué*

**COMMUNICATION IN WEB-BASED LEARNING ENVIRONMENTS: FOR BETTER COLLECTING AND EXPLOITING LEARNERS' TRACKING DATA (F098)**

*Madeth May, Sébastien George and Patrick Prévôt*

**9:00-10:50 Session FP 9.3 – Technology, Learning and Expertise**

**(Room: Alfanzina)**

**Chair: Slavi Stoyanov**

**DESIGNING AND LEARNING IN 3D VIRTUAL WORLDS (F020)**

*Ning Gu, Anthony Williams and Leman Figen Gül*

**USING STORYBOARDING AND DATA MINING TO ESTIMATE SUCCESS CHANCES OF CURRICULA (F089)**

*Rainer Knauf, Ronald Böck, Yoshitaka Sakurai, Shinishi Dohi and Setsuo Tsuruta* Author

**AN INTEGRATIVE APPROACH FOR TEACHING/TUTORING PROCESS MODELS USING META-MODELS (F100)**

*Alke Martens and Andreas Harrer*

**COLLABORATIVE E-LEARNING PROCESSES IN CONCEPTUAL CONTENT MANAGEMENT SYSTEMS (S109)**

*Hans-Werner Sehring, Sebastian Bossung and Joachim W. Schmidt*

**11:00-11:30 Coffee Break**

**11:30-13:10 Session FSP 9.4 – Technology and Mental Models // Just-in-time and Learning-on-demand**

**(Room: Carvoeiro)**

**Chair: Anda Zeidmane**

**LAZY USER THEORY OF SOLUTION SELECTION (F108)**

*Mikael Collan and Franck Tétard*

**PERFORMANCE SUPPORT SYSTEM IN HIGHER EDUCATION – INTRODUCTION AND EMPIRICAL VALIDATION (F022)**

*Slavi Stoyanov, Piet Kommers, Theo Bastiaens and Catalina Martínez Mediano*

**BLOG MICROCONTENTS AWARENESS THROUGH CONTEXT AWARE RSS FEEDS (S036)**

*Luigi Lella, Juri Orazi, Ester Torresi, Michele Campanelli and Vera Stara*

**FLEXIBLE MODELS FOR JUST-IN-TIME TRANSFER OF SKILLS AND KNOWLEDGE TO SME (S050)**

*John B. Stav, Erik Eng and Roger Bergh*

**11:30-12:20 Session FSP 9.5 – Learning Communities & Web Service Technologies**

**(Room: Algar Seco)**

**Chair: Rainer Knauf**

**DOES THE USE OF WEBCT HELP ENHANCE A SENSE OF COMMUNITY IN HIGHER EDUCATION? (S149)**

*Nick Lund and Maggie Watkin*

**PRODUCING EDUCATIONAL MATERIAL IN SYNCHRONOUS AND ASYNCHRONOUS COLLABORATIVE CONTEXTS (S059)**

*Gracia Gingra and Jean-Marc Robert*

**13:10 Closing Session (Room: Carvoeiro)**

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