

**IADIS International Conference on
Cognition and Exploratory Learning in Digital Age
CELDA 2013
Fort Worth, Texas, USA
CONFERENCE PROGRAM**

Tuesday 22nd, October 2013

08:30-18:20 Welcome Desk

**09:15-09:30 Session O – Opening Session
(Room Driftwood)**

OPENING SESSION

*Profs. J. Michael Spector, Demetrios G Sampson, Dirk Ifenthaler
and Pedro Isaias*

**09:30-10:30 Session KL1 – Keynote Presentation
(Room Driftwood)**

**UBIQUITOUS LEARNING ANALYTICS FOR ADAPTIVE
AND AUTHENTIC INSTRUCTION**

*Professor Kinshuk, Associate Dean of Faculty of Science and
Technology, NSERC/iCORE/Xerox/Markin Industrial Research
Chair - School of Computing and Information Systems, Athabasca
University, Canada*

10:30-11:00 Coffee Break (at Piney Wood Cove Room)

**11:00-12:40 Session FSP 22.1
Cognition In Education // Educational Psychology //
Other
(Room Driftwood)**

Chair: Demetrios G. Sampson

**WORKING MEMORY INTERVENTION: A READING
COMPREHENSION APPROACH (F123)**

Tracy L. Perry and Evgenia Malaia

**SUGGESTIONS FOR THE DESIGN OF E-LEARNING
ENVIRONMENTS TO ENHANCE LEARNER SELF-
EFFICACY (F121)**

Charles B. Hodges

**THE COGNITIVE COST OF CHATTING WHILE
ATTENDING A LECTURE: A TEMPORAL ANALYSIS (S041)**

*Chris Bigenho, Lin Lin, Caroline Gold, Arjun Gupta
and Lindsay Rawitscher*

**“VISUAL SELVES”: CONSTRUCTION SCIENCE
STUDENTS’ PERCEPTIONS ABOUT THEIR ABILITIES
TO REPRESENT SPATIAL RELATED PROBLEMS
INTERNALLY AND EXTERNALLY (S109)**

Tamera McCuen and Xun Ge

**13:30-15:30 Session FSP 22.2
Technology, Learning And Expertise
(Room Driftwood)**

Chair: Elizabeth Crawford

**STUDENT AND TEACHER USE OF TECHNOLOGY
AT THE UNIVERSITY LEVEL (F021)**

Peter Gobel and Makimi Kano

**UNDERSTANDING AND APPLYING TECHNOLOGY IN
FACULTY DEVELOPMENT PROGRAMS (F051)**

Sharon L. Burton and Dustin Bessette

**EDUCATIONAL AFFORDANCES THAT SUPPORT
DEVELOPMENT OF INNOVATIVE THINKING SKILLS
IN LARGE CLASSES (S084)**

Julaine Fowlin, Catherine Amelink and Glenda Scales

**TECHNOLOGY AND CURRICULUM STANDARDS:
HOW WELL DO INTERNET-BASED LEARNING GAMES
SUPPORT COMMON CORE STANDARDS
FOR MATHEMATICS? (S119)**

Teri Bingham and Jan Ray

**ENGLISH PROFICIENCY AND PARTICIPATION
IN ONLINE DISCUSSION FOR LEARNING (S124)**

Steve Leung

15:30-16:00 Coffee Break (at Piney Wood Cove Room)

**16:00-17:20 Session FSP 22.3
Learning Communities & Web Service Technologies //
Other**

(Room Driftwood)

Chair: Charles Hodges

**DESIGNING LEARNING OBJECT REPOSITORIES
AS SYSTEMS FOR MANAGING EDUCATIONAL
COMMUNITIES KNOWLEDGE (F023)**

Demetrios G. Sampson and Panagiotis Zervas

**THE CONFIGURATION PROCESS OF A COMMUNITY
OF PRACTICE IN THE COLLECTIVE TEXT EDITOR (F029)**

Cláudia Zank and Patricia Alejandra Behar

**THE INVESTIGATION OF PRE-SERVICE TEACHERS’
CONCERNS ABOUT INTEGRATING WEB 2.0
TECHNOLOGIES INTO INSTRUCTION (S089)**

*Yungwei Hao, Shiou-ling Wang, Su-jen Chang, Yin-hung Hsu
and Ren-yen Tang*

12:30-13:30 Lunch Break (at West Room)

**17:20-18:20 Reflection Papers Session
(Room Driftwood)**

Chair: J. Michael Spector

SOME CONSIDERATIONS ON DIGITAL READING

Rodrigo Esteves de Lima-Lopes

**AN ALTERNATIVE APPROACH TO TEST ANALYSIS
AND INTERPRETATION**

J. C. Powell

VOLITION SUPPORT DESIGN MODEL

ChanMin Kim

**TEKKING: TRANSVERSING VIRTUAL
AND INTERNATIONAL BOUNDARIES TO EXPLORE
AND DEVELOP EFFECTIVE ADULT LEARNER
EXPERIENCES**

Ruth Gannon Cook

**STRENGTHENING PARENT-CHILD RELATIONSHIPS
THROUGH CO-PLAYING VIDEO GAMES**

Anneliese Sheffield and Lin Lin

**REFLECTION PAPER ON A UBIQUITOUS ENGLISH
VOCABULARY LEARNING SYSTEM: EVIDENCE
OF ACTIVE/PASSIVE ATTITUDE VS
USEFULNESS/EASE-OF-USE**

Jeff Lim

08:20-10:30 Session FSP 23.2

**Learner Communities And Peer-support
(Room Sister Creek)**

Chair: J. Michael Spector

**THE ANCESTOR PROJECT: ABORIGINAL COMPUTER
EDUCATION THROUGH STORYTELLING (F062)**

Marla Weston and Dianne Biin

**CONTEXT-BASED SEMANTIC ANNOTATIONS IN COPES:
AN ONTOLOGICAL AND RULE-BASED APPROACH (F083)**

Souâad Boudebza, Lamia Berkani and Faiçal Azouaou

**MOBILE AUGMENTED REALITY IN SUPPORTING PEER
ASSESSMENT: AN IMPLEMENTATION
IN A FUNDAMENTAL DESIGN COURSE (F098)**

Chung-Hsien Lan, Stefan Chao, Kinshuk and Kuo-Hung Chao

**DON'T WASTE STUDENT WORK: USING CLASSROOM
ASSIGNMENTS TO CONTRIBUTE TO ONLINE
RESOURCES (S038)**

Jim Davies

**LEVERAGING SOCIOCULTURAL THEORY TO CREATE A
MENTORSHIP PROGRAM FOR DOCTORAL STUDENTS
(S106)**

Matt Crosslin, Jenny S. Wakefield, Phyllis Bennette and James

William Black III

**18:30 Welcome Reception (at Hotel Restaurant -
Sheraton Bistro)**

10:30-11:00 Coffee Break (at Lightcatcher Foyer Room)

**11:00-12:30 Panel Session
(Room Driftwood)**

**INTERACTIVE TECHNOLOGIES FOR TEACHER
TRAINING: TWO TECHNOLOGY APPROACHES AND
THEIR IMPLICATIONS**

*Julia Meritt, David Gibson, Rhonda Christensen, Gerald Knezek and
Wilhelmina Savenye*

Wednesday 23rd, October 2013

**12:30-13:30 Lunch Break (at Brushy Creek & Dry Coma
Room)**

08:00-18:30 Welcome Desk

13:30-15:30 Session FP 23.3

**Technology, Learning And Expertise // Other
(Room Driftwood)**

Chair: Dirk Ifenthaler

08:20-10:30 Session FSP 23.1

**Student-centered Learning
(Room Driftwood)**

Chair: Catherine C. Schifter

**JOURNEY OF EXPLORATION ON THE WAY TOWARDS
AUTHENTIC LEARNING ENVIRONMENTS (F061)**

Merja Meriläinen and Maarika Piispanen

**PROBLEM-BASED EDUCATIONAL GAME BECOME
STUDENT-CENTERED LEARNING ENVIRONMENT (S115)**

Pornpimon Rodkroh, Praweenya Suwannathachote and Wannee

Kaemkate

**TECHNOLOGY AND COGNITION MERGE WITH
CHALLENGE-BASED LEARNING CYCLES ONLINE (S037)**

Shelley L. Cobbett

**STUDENT-DRIVEN CLASSROOM TECHNOLOGIES:
TRANSMEDIA NAVIGATION AND TRANSFORMATIVE
COMMUNICATIONS (S108)**

Leila A. Mills, Gerald A. Knezek, Jenny S. Wakefield

**AUTHENTIC LEARNING THROUGH GBL: USING
INQUIRY AND PBL STRATEGIES TO ACCOMPLISH
SPECIFIC LEARNING OUTCOMES THROUGH SMART
GAMES IN FORMAL AND INFORMAL SETTINGS (S018)**

Brad Hoge

**DEALING WITH UNSEEN OBSTACLES TO EDUCATION
IN THE DIGITAL AGE (S076)**

*Valerie J. H. Powell, Arif Sirinterlikci, Christopher Zomp, Randall S.
Johnson, Phillip Miller and James C. Powell*

**MEASURING PROBLEM SOLVING SKILLS IN PORTAL 2
(F046)**

Valerie J. Shute and Lubin Wang

**STUDENTS' FACEBOOK USAGE AND ACADEMIC
ACHIEVEMENT: A CASE STUDY OF PRIVATE
UNIVERSITY IN THAILAND (F074)**

Wilailuk Sereetrakul

**STUDENTS' USAGE OF FACEBOOK FOR ACADEMIC
PURPOSES: A CASE STUDY OF PUBLIC AND PRIVATE
UNIVERSITIES IN THAILAND (F075)**

Ampai Thongteeraparp

**PERSISTENCE OF COGNITIVE CONSTRUCTS FOSTERED
BY HANDS-ON SCIENCE ACTIVITIES IN MIDDLE
SCHOOL STUDENTS (F128)**

*Rhonda Christensen, Gerald Knezek, Tandra Tyler-Wood
and David Gibson*

13:30-15:40 Session FSP 23.4

Collaborative Learning

(Room Sister Creek)

Chair: Marilyn Simon

INTELLIGENT TUTORS IN IMMERSIVE VIRTUAL ENVIRONMENTS (F035)

Peng Yan, Brian M. Slator, Bradley Vender, Wei Jin, Matti Kariluoma, Otto Borchert, Guy Hokanson, Vaibhav Aggarwal, Bob Cosmano, Kathleen T. Cox, André Pilch and Andrew "Mazz" Marry

CAN FREE-RANGE STUDENTS SAVE SOME SCHOOLS? A CASE STUDY ON A HYBRID CLASSROOM (F040)

Christopher Francis White

ICT SUPPORT FOR COLLABORATIVE LEARNING – A TALE OF TWO CITIES (F052)

Teresa Consiglio and Gerrit C. van der Veer

IMPLEMENTING COLLABORATIVE DESIGN IN THE NEXT SERIES OF E-LEARNING PLATFORMS (S019)

Dorothy Kropf

FACING THE CHALLENGE – DEVELOPING AN INSTRUCTIONAL PLAN FOR PORTUGUESE AS FOREIGN LANGUAGE IN BRAZIL BASED ON MULTILITERACY (S045)

Ana Flora Schindwein

15:30-16:00 Coffee Break (at Lightcatcher Foyer Room)

16:00-18:20 Session FSP 23.5

Assessing Progress Of Learning In Complex Domains //

Assessment Of Exploratory Learning Approaches

(Room Driftwood)

Chair: Bradley Hoge

DATA CHALLENGES OF LEVERAGING A SIMULATION TO ASSESS LEARNING (F059)

David Gibson and Peter Jakl

SELF-ASSESSMENT AND REFLECTION IN A 1ST SEMESTER COURSE FOR SOFTWARE ENGINEERING STUDENTS (F125)

Jacob Nielsen, Gunver Majgaard and Erik Sørensen

DEMONSTRABLE COMPETENCE: AN ASSESSMENT METHOD FOR COMPETENCY DOMAINS IN LEARNING AND LEADERSHIP DOCTORAL PROGRAM (S050)

David W. Rausch and Elizabeth K. Crawford

CONFIDENCE-BASED ASSESSMENTS WITHIN AN ADULT LEARNING ENVIRONMENT (S111)

Paul Novacek

EFFECT OF DIGITALLY-INSPIRED INSTRUCTION ON SEVENTH GRADE SCIENCE ACHIEVEMENT (S065)

Pam Winn, Susan Erwin, Melissa Becker and Misty White

INTERACTIVE TECHNOLOGIES FOR TEACHER TRAINING: COMPARING PERFORMANCE AND ASSESSMENT IN SECOND LIFE AND SIMSCHOOL (S094)

Julia Meritt, David Gibson, Rhonda Christensen and Gerald Knezek

16:00-18:30 Session FSP 23.6

Exploratory Technologies

(Room Sister Creek)

Chair: Blanche O'bannon

PIAGET, INHELDER AND MINECRAFT (F032)

Catherine C. Schifter, Maria Cipollone and Frederick Moffat

MATH ON A SPHERE: MAKING USE OF PUBLIC DISPLAYS IN EDUCATION (F105)

Michael Eisenberg, Antranig Basman and Sherry Hsi

RESEARCH ON THE E-TEXTBOOK AND E-SCHOOLBAG IN CHINA: CONSTRUCTING AN ECOSYSTEM OF E-TEXTBOOK AND E-SCHOOLBAG (F126)

Yonghe Wu, Lin Lin, Xiaoling Ma and Zhiting Zhu

A STUDY ON IMPROVING INFORMATION PROCESSING ABILITIES BASED ON PBL (F078)

Du Gyu Kim and JaeMu Lee

SOME PSYCHOMETRIC AND DESIGN IMPLICATIONS OF GAME-BASED LEARNING ANALYTICS (F026)

David Gibson and Jody Clarke-Midura

19:00 Conference Dinner (at Brushy Creek & Dry Coma Room)

Thursday 24th, October 2013

08:30-13:00 Welcome Desk

08:30-10:30 Session FP 24.1

Student-centered Learning

(Room Driftwood)

Chair: Jacob Nielsen

SUPPORTING THE STRENGTHS AND ACTIVITY OF CHILDREN WITH AUTISM IN A TECHNOLOGY-ENHANCED LEARNING ENVIRONMENT (F024)

Virpi Vellonen, Eija Kärnä and Marjo Virmes

TRANSFORMING EDUCATION IN A PRIMARY SCHOOL: A CASE STUDY (F036)

Cathleen A. Norris, Elliot Soloway, Chun Ming Tan, Chee Kit Looi, Akhlaq Hossain

USING GENERIC AND CONTEXT-SPECIFIC SCAFFOLDING TO SUPPORT AUTHENTIC SCIENCE INQUIRY (F044)

Brian R. Belland, Jianguye Gu, Sara Armbrust and Brant Cook

USING A FACEBOOK GROUP AS A FORUM TO DISTRIBUTE, ANSWER AND DISCUSS CONTENT: INFLUENCE ON ACHIEVEMENT (F117)

Blanche W. O'Bannon, Virginia G. Britt and Jeffrey L. Beard

08:40-10:30 Session FSP 24.2

Learning Paradigms In Academia // Life-long Learning

(Room Grape Creek)

Chair: David Rausch

CROSS-CONTINENTAL RESEARCH COLLABORATIONS ABOUT ONLINE TEACHING (F039)

Kevin P. Gosselin and Maria Northcote

LEVERAGE LEARNING IN THE UNIVERSITY CLASSROOM (F053)

Melissa Roberts Becker, Pam Winn and Susan Erwin

USING LOOP LEARNING AND CRITICAL DIALOGUE IN DEVELOPING INNOVATIVE LITERATURE REVIEWS (F097)

Marilyn K. Simon and Jim Goes

LIFE-LONG LEARNING AND SOCIAL RESPONSIBILITY OBLIGATIONS (S030)

Robin Mayes

10:30-11:00 Coffee Break (at Lightcatcher Foyer Room)

11:00-12:40 Session FSP 24.3

**Technology, Learning And Expertise // Pedagogical Issues
Related With Learning Objects
(Room Driftwood)**

Chair: Dirk Ifenthaler

**SPANNING KNOWLEDGE BARRIERS IN E-LEARNING
CONTENT DESIGN (F120)**

Tsai-Hsin Chu, Yi Lee and Yen-Hsien Lee

**ASK LDT 2.0: A WEB-BASED GRAPHICAL TOOL
FOR AUTHORING LEARNING DESIGNS (F129)**

*Panagiotis Zervas, Konstantinos Fragkos
and Demetrios G. Sampson*

**AN EXAMINATION OF TEACHERS' INTEGRATION
OF WEB 2.0 TECHNOLOGIES IN SECONDARY
CLASSROOMS: A PHENOMENOLOGICAL STUDY (S042)**

Ling Wang

**PERCEIVED AFFORDANCES OF A TECHNOLOGY-
ENHANCED ACTIVE LEARNING CLASSROOM
IN PROMOTING COLLABORATIVE PROBLEM SOLVING
(S114)**

Xun Ge, Yu Jin Yang, Lihui Liao and Erin G. Wolfe

11:00-12:50 Session FSP 24.4

**Just-in-time And Learning-on-demand // Exploratory
Technologies**

(Room Grape Creek)

Chair: Valerie J. H. Powell

**TABLETS IN THE CLASSROOM: IMPROVISATIONAL
RHYTHMS AND CHANGE THROUGH BRICOLAGE (F063)**

Bente Meyer

**USING REU PROJECTS AND CROWDSOURCING
TO FACILITATE LEARNING ON DEMAND (F079)**

Hong P. Liu and Jerry E. Klein

**IPADS IN INCLUSIVE CLASSROOMS: ECOLOGIES
OF LEARNING (F014)**

Bente Meyer

**THE CONTRIBUTIONS OF DIGITAL CONCEPT MAPS
TO ASSESSMENT FOR LEARNING PRACTICES (S112)**

Mehmet Filiz, David Trumpower and Sait Atas

**12:50 Best Paper Awards Ceremony and Closing Session
(Room Driftwood)**

*Profs. J. Michael Spector, Demetrios G Sampson, Dirk Ifenthaler
and Pedro Isaías*