

**12th International Conference on
Cognition and Exploratory Learning in Digital Age
CELDA 2015
Maynooth, Greater Dublin, Ireland**

CONFERENCE PROGRAM

Saturday 24th, October 2015

08:30-19:00 Welcome Desk

**09:30-09:50 Session O – Opening Session
(Room JHL 4)**

OPENING SESSION

Profs. J. Michael Spector, Dirk Ifenthaler and Pedro Isaías

**09:50-11:00 Session KL1 – Keynote Presentation
(Room JHL 4)**

**INSTRUCTIONAL MESSAGE DESIGN: PAST, PRESENT,
AND FUTURE RELEVANCE**

*by Professor MJ Bishop, Director, Center for Academic Innovation,
University System of Maryland, USA*

11:00-11:30 Coffee Break

**11:30-13:00 Session FSP 24.1
Learning Communities & Web Service Technologies
(Room JHL 4)**

Chair: J. Michael Spector

**TOWARDS A METADATA SCHEMA FOR
CHARACTERIZING LESSON PLANS SUPPORTED BY
VIRTUAL AND REMOTE LABS IN SCHOOL SCIENCE
EDUCATION (F110)**

*Panagiotis Zervas, Eleftheria Tsourlidaki, Sofoklis Sotiriou and
Demetrios G. Sampson*

**A PROGRAM COMPLEXITY METRIC BASED ON
VARIABLE USAGE FOR ALGORITHMIC THINKING
EDUCATION OF NOVICE LEARNERS (S069)**

*Minori Fuwa, Mizue Kayama, Hisayoshi Kunimune, Masami
Hashimoto and David K. Asano*

**APPS. ACCESSIBILITY AND USABILITY BY PEOPLE
WITH VISUAL DISABILITIES (S082)**

Eva María Olmedo-Moreno and Adrian López-Delgado

**COMPARING LEARNER COMMUNITY BEHAVIOR IN
MULTIPLE PRESENTATIONS OF A MASSIVE OPEN
ONLINE COURSE (S158)**

Silvia Elena Gallagher and Timothy Savage

**11:30-13:10 Session FSP 24.2
Exploratory Technologies
(Room JHL 7)**

Chair: Rhonda Christensen

**DIVULGING PERSONAL INFORMATION WITHIN
LEARNING ANALYTICS SYSTEMS (F213)**

Dirk Ifenthaler and Clara Schumacher

**TAGALONG: INFORMAL LEARNING FROM A REMOTE
COMPANION WITH MOBILE PERSPECTIVE SHARING
(F242)**

*Scott W. Greenwald, Mina Khan, Christian D. Vazquez and Pattie
Maes*

**THE WORK OF CHILDREN: SEEKING PATTERNS IN THE
DESIGN OF EDUCATIONAL TECHNOLOGY (S063)**

Michael Eisenberg and Zack Jacobson-Weaver

**TOWARDS SUPPORTING COMMUNICATION IN
RELATIONSHIP AND SEXUALITY EDUCATION
THROUGH A VLE (S215)**

Marion McGinn and Inmaculada Arnedillo-Sánchez

13:00-14:30 Lunch Break

**14:30-16:30 Session FP 24.3
Learning Paradigms In Academia // Life-long Learning
(Room JHL 4)**

Chair: Dirk Morrison

**ACCOUNTING PROFESSOR QUALIFICATION IN DIGITAL
AGE: A PERCEPTION STUDY ON BRAZILIAN
PROFESSORS (F230)**

Maria Ivanice Vendruscolo and Patrícia Alejandra Behar

**SUPERVISORY AND DIGITAL LITERACY PRACTICES IN
POSTGRADUATE SUPERVISION: A CASE STUDY (F161)**

*Sarjit Kaur, Gurnam Kaur Sidhu, Lee Lai Fong and Leele Suzana
Jamian*

**POSTGRADUATE STUDENTS' LEVEL OF DEPENDENCE
ON SUPERVISORS IN COPING WITH ACADEMIC
MATTERS AND USING DIGITAL TOOLS (F162)**

*Gurnam Kaur Sidhu, Sarjit Kaur, Lim Peck Choo and Chan Yuen
Fook*

**TOWARDS GATHERING INITIAL REQUIREMENTS OF
DEVELOPING A MOBILE SERVICE TO SUPPORT
INFORMAL LEARNING AT CULTURAL HERITAGE SITES
(F108)**

Alaa Alkhafaji, Sanaz Fallahkhair and Mihaela Cocea

14:30-16:20 Session FSP 24.4
Educational Psychology
(Room JHL 7)
Chair: Dirk Ifenthaler

THE DEVELOPMENT AND EMPOWERMENT OF MATHEMATICAL ABILITIES: THE IMPACT OF PENCIL AND PAPER AND COMPUTERISED INTERVENTIONS FOR PRESCHOOL CHILDREN (F078)

Maria Lidia Mascia, Mirian Agus, Maria Chiara Fastame, Maria Pietronilla Penna, Eliana Sale and Eliano Pessa

THE RELATIONSHIP AMONG SELF-REGULATED LEARNING, PROCRASTINATION, AND LEARNING BEHAVIORS IN BLENDED LEARNING ENVIRONMENT (F129)

Masanori Yamada, Yoshiko Goda, Takeshi Matsuda, Hiroshi Kato and Hiroyuki Miyagawa

SOUND AS AFFECTIVE DESIGN FEATURE IN MULTIMEDIA LEARNING – BENEFITS AND DRAWBACKS FROM A COGNITIVE LOAD THEORY PERSPECTIVE (F178)

Anke Königshulte

THE DEVELOPMENT OF COMPUTATIONAL THINKING IN THE CONTEXT OF SCIENCE AND ENGINEERING PRACTICES: A SELF-REGULATED LEARNING APPROACH (S085)

Erin E. Peters-Burton, Timothy J. Cleary and Anastasia Kitsantas

16:30-17:00 Coffee Break

17:00-18:50 Session FSP 24.5

Assessing Progress of Learning In Complex Domains // Assessment of Exploratory Technologies (Room JHL 4)

Chair: Michael Eisenberg

THE WILL, SKILL, TOOL MODEL OF TECHNOLOGY INTEGRATION: ADDING PEDAGOGY AS A NEW MODEL CONSTRUCT (F115)

Gerald Knezek and Rhonda Christensen

CHALLENGES OF BIG DATA IN EDUCATIONAL ASSESSMENT (F131)

David C. Gibson, Mary Webb and Dirk Ifenthaler

EVALUATING THE INTERACTIVE LEARNING TOOL SIMREAL+ FOR VISUALIZING AND SIMULATING MATHEMATICAL CONCEPTS (F044)

Said Hadjerrouit

DEVELOPING ADOLESCENTS' RESISTANCE TO SEXUAL COERCION THROUGH ROLE-PLAYING ACTIVITIES IN A VIRTUAL WORLD (S166)

Marion McGinn and Inmaculada Arnedillo-Sánchez

17:00-18:50 Session FSP 24.6

Technology, Learning And Expertise (Room JHL 7)

Chair: Kathy Fuller

INSIDE THE DIGITAL WILD WEST: HOW SCHOOL LEADERS BOTH ACCESS AND AVOID SOCIAL MEDIA (F188)

Laurie Corrigan and Lorayne Robertson

HOW DO HIGH SCHOOL STUDENTS PREFER TO LEARN? (F236)

Leila A. Mills and Putthachat Angnakoon

MORE THAN A BROKER: A CASE STUDY OF KNOWLEDGE MOBILIZATION IN A DIGITAL ERA (F180)

Lorayne Robertson

SIGNIFICANT CHANGES IN THE ENVIRONMENT AND IN TEACHING METHODOLOGY OF A E-LEARNING DISCIPLINE TO AVOID DROPOUTS IN A COURSE AT THE FEDERAL INSTITUTE (S090)

Gustavo Prado Oliveira, Päivi Aarreniemi-Jokipelto and Ricardo Soares Boaventura

Sunday 25th, October 2015

08:00-15:45 Welcome Desk

08:50-11:00 Session FSP 25.1

Cognition In Education // Acquisition Of Expertise (Room: JHL 4)

Chair: Karl Donert

STUDIES RELATING TO COMPUTER USE OF SPELLING AND GRAMMAR CHECKERS AND EDUCATIONAL ACHIEVEMENT (F141)

Odette Bourjaili Radi

DESIGN THINKING AND METACOGNITIVE REFLECTIVE SCAFFOLDS: A GRAPHIC DESIGN-INDUSTRIAL DESIGN TRANSFER CASE STUDY (F144)

Chien-Sing Lee and Kuok-Shoong Daniel Wong

DEVELOPING A DISPOSITION FOR SOCIAL INNOVATIONS: AN AFFECTIVE-SOCIO-COGNITIVE CO-DESIGN MODEL (F193)

Chien-Sing Lee and Kuok-Shoong Daniel Wong

HOW CAN ONE LEARN MATHEMATICAL WORD PROBLEMS IN A SECOND LANGUAGE? A COGNITIVE LOAD PERSPECTIVE (S080)

Jase Moussa-Inaty, Mark Causapin and Timothy Groombridge

ONTOLOGICAL RELATIONS AND THE CAPABILITY MATURITY MODEL APPLIED IN ACADEMIA (S152)

Jerônimo Moreira de Oliveira, Laura Gómez Campoy and Lilian Vilarino

08:50-11:00 Session FSP 25.2

Technology, Learning And Expertise (Room: JHL 7)

Chair: Said Hadjerrouit

A MODEL FOR UBIQUITOUS SERIOUS GAMES DEVELOPMENT FOCUSED ON PROBLEM BASED LEARNING (F076)

Sandro Oliveira Dorneles, Cristiano André da Costa and Sandro José Rigo

PROCESS MODELS IN E-LEARNING – BOTTOM-UP OR TOP-DOWN? (F118)

Sarah Sahl and Alke Martens

BLENDED INTERACTION FOR AUGMENTED LEARNING- AN ASSISTIVE TOOL FOR COGNITIVE DISABILITY (F054)

Suman Deb, Subir Saha and Paritosh Bhattacharya

HOW OLDER ADULTS USE VIRTUAL PERSONAL LEARNING NETWORKS TO SUPPORT INFORMAL, SELF-DIRECTED LIFELONG LEARNING GOALS: A RESEARCH PROGRAM DESCRIPTION (S204)

Dirk Morrison

COGNITIVE CURATIONS OF COLLABORATIVE CURRICULA (S245)

Amy S. Ackerman

11:00-11:30 Coffee Break

11:30-13:10 Session FSP 25.3
Student-centered Learning
(Room: JHL 4)
Chair: Aimee Brenner

EXAMINING THE EFFECTS OF FIELD TRIPS ON SCIENCE IDENTITY (F150)

Leila A. Mills and William Katzman

EDUCATION ON THE CLOUD: RESEARCHING STUDENT-CENTERED, CLOUD-BASED LEARNING PROSPECTS IN THE CONTEXT OF A EUROPEAN NETWORK (F222)

Hercules Panoutsopoulos, Karl Donert, Panos Papoutsis and Ioannis Kotsanis

BRAIN 3M – A NEW APPROACH TO LEARNING ABOUT BRAIN, BEHAVIOR, AND COGNITION (S059)

Ping Li, Lauren E. Chaby, Jennifer Legault and Victoria A. Braithwaite

LEARNER-CONTENT-INTERFACE AS AN APPROACH FOR SELF-RELIANT AND STUDENT-CENTERED LEARNING (S232)

Robin Nicolay, Bastian Schwennigcke, Sarah Sahl and Alke Martens

11:30-12:50 Session SP 25.4
Technology, Learning And Expertise
(Room: JHL 7)
Chair: Dirk Ifenthaler

E-FUNDI AS A VIABLE WAY TO DO E-MENTORING (S116)

George A. Lotter

HEALTH CARE: ROLE OF ICT IN AUTISM (S147)

Hafiza Maimoona Shahid, Sohaib Tariq, Imran Saleem, Muhammad Adil Butt, Arslan Tariq and Iqra Tariq

INVESTIGATION INTO UNDERGRADUATE INTERNATIONAL STUDENTS' USE OF DIGITAL TECHNOLOGY AND THEIR APPLICATION IN FORMAL AND INFORMAL SETTINGS (S149)

Rebecca Strachan and Sanaa Aljabali

E-LEARNING SYSTEM FOR LEARNING VIRTUAL CIRCUIT MAKING WITH A MICROCONTROLLER AND PROGRAMMING TO CONTROL A ROBOT (S200)

Atsushi Takemura

13:00-14:30 Lunch Break

14:30-15:30 Session SP 25.5
Technology And Mental Models
(Room: JHL 4)
Chair: George Lotter

A SEMANTIC BASIS FOR MEANING CONSTRUCTION IN CONSTRUCTIVIST INTERACTIONS (S075)

Farshad Badie

MUSIC AS ACTIVE INFORMATION RESOURCE FOR PLAYERS IN VIDEO GAMES (S088)

Marian Nagorsnick and Alke Martens

MAKING CONSTRUALS AS A NEW DIGITAL SKILL FOR LEARNING (S225)

Meurig Beynon, Russell Boyatt, Jonathan Foss, Chris Hall, Elizabeth Hudnott, Steve Russ, Erkki Sutinen, Hamish Macleod and Piet Kommers

14:30-15:15 Reflection Papers Session
(Room JHL 7)

Chair: J. Michael Spector

DEVELOPMENT OF CRITICAL THINKING SELF-ASSESSMENT SYSTEM USING WEARABLE DEVICE (R057)

Yasushi Gotoh

AN INNOVATIVE INTERDISCIPLINARY APPROACH TO PROVIDING INTERNSHIPS FOR COLLEGE SENIORS (R175)

Kathy Fuller

FOSTERING 21ST CENTURY SKILLS THROUGH GAME DESIGN AND DEVELOPMENT (R185)

Gregory P. Garvey

15:50 – Social Event - Conference Tour and Dinner

Monday 26th, October 2015

08:30-13:00 Welcome Desk

09:00-11:00 Session FSP 26.1
Collaborative Learning // Assessment of Exploratory Learning Approaches
(Room JHL 4)
Chair: Rose Dolan

TECHNOLOGY-ENHANCED PEDAGOGICAL FRAMEWORK FOR COLLABORATIVE CREATIVITY: ANALYSES OF STUDENTS' PERCEPTION (F177)

Manoli Pifarré, Laura Martí and Andreea Cujba

COLLABORATIVE PROBLEM SOLVING IN SHARED SPACE (F220)

Lin Lin, Leila A. Mills and Dirk Ifenthaler

A FUNDAMENTAL STUDY FOR EFFICIENT IMPLEMENTAION OF ONLINE COLLABORATIVE ACTIVITIES IN LARGE-SCALE CLASSES (S153)

Ryuichi Matsuba, Yusei Suzuki, Shin-Ichiro Kubota and Makoto Miyazaki

ENCOURAGING USER PARTICIPATION IN BLENDED LEARNING: COURSE REORIENTATION (S074)

Alea M. Fairchild

ASSESSING PROBLEM SOLVING COMPETENCE THROUGH INQUIRY-BASED TEACHING IN SCHOOL SCIENCE EDUCATION (S112)

Panagiotis Zervas, Sofoklis Sotiriou, Rüdiger Tiemann and Demetrios G. Sampson

11:00-11:30 Coffee Break

11:30-13:10 Session FSP 26.2

Student-centered Learning

(Room JHL 4)

Chair: Alea Fairchild

TECHNOLOGY GOES BUSH: USING MOBILE TECHNOLOGIES TO SUPPORT LEARNING IN A BUSH KINDER PROGRAM (F217)

Jennifer Masters and Leanne Grogan

MOVING IN TIME TO A DIGITAL TUNE: A CRISIS IN OUR IDENTITY? (F049)

Breda Mc Taggart

CACHE-CACHE COMPARISON FOR SUPPORTING MEANINGFUL LEARNING (S051)

Jingyun Wang and Seiji Fujino

CREATING INNOVATIVE, STUDENT-CENTERED PROJECTS WITH APP SMASHING (S172)

Aimee M. Brenner and Janel S. Hauser

11:30-12:15 Reflection Papers Session

(Room JHL 7)

Chair: J. Michael Spector

EXPLORING TECHNOLOGY SUPPORTED COLLABORATIVE AND COOPERATIVE GROUP FORMATION MECHANISMS (R060)

Mia Čarapina and Ivica Botički

DEVELOPING SELF-REGULATED LEARNERS THROUGH COLLABORATIVE ONLINE CASE DISCUSSION IN EDUCATIONAL PSYCHOLOGY (R072)

Patricia P. Willems and Alyssa Gonzalez-DeHass

STUDENT'S PERSPECTIVES ON TAKING COURSES ONLINE, BLENDED, OR A COMBINATION (R136)

Catherine C. Schifter, Dirk Ifenthaler and Daniel White

13:10 Best Paper Awards Ceremony and Closing Session

(Room JHL 4)

Profs. J. Michael Spector, Dirk Ifenthaler and Pedro Isaías