

**13th International Conference on
Cognition and Exploratory Learning in Digital Age
CELDA 2016
Mannheim, Germany**

CONFERENCE PROGRAM

Friday 28th, October 2016

08:30-19:15 Welcome Desk

**09:45-10:00 Session O – Opening Session
(Room O142)**

OPENING SESSION
Prof. Dirk Ifenthaler

**10:00-11:00 Session KL1 – Keynote Presentation
(Room O142)**

OPEN EDUCATIONAL RESOURCES: EDUCATIONAL TECHNOLOGY AS A DRIVER FOR EDUCATIONAL REFORM?
by Prof. Michael Kerres, Professor of Education, Chair of Educational Media and Knowledge Management, University of Duisburg-Essen, Germany

11:00-11:30 Coffee Break

**11:30-13:00 Session FP 28.1
Learning Communities & Web Service Technologies
(Room O142)
Chair: Dale S. Niederhauser**

A SERVICE-LEARNING PROJECT USING CROWDFUNDING STRATEGY: STUDENTS' EXPERIENCE AND REFLECTION (F052)
Jessnor Elmy Mat-jizat and Khalizul Khalid
TOWARDS A THEORY-BASED DESIGN FRAMEWORK FOR AN EFFECTIVE E-LEARNING COMPUTER PROGRAMMING COURSE (F461)
Ian S. McGowan
AN ONTOLOGY FOR LEARNING SERVICES ON THE SHOP FLOOR (F464)
Carsten Ullrich

**11:30-12:50 Session FSP 28.2
Pedagogical Issues Related With Learning Objects
(Room O135)
Chair: Dirk Ifenthaler**

A VIDEO GAME FOR LEARNING BRAIN EVOLUTION: A RESOURCE OR A STRATEGY? (F467)
Luisa Fernanda Barbosa Gomez, Maria Cristina Bohorquez Sotelo, Naydu Shirley Roja Higuera and Brigitte Julieth Rodriguez Mendoza
COMMUNICATION VULNERABILITY IN THE DIGITAL AGE: A MISSED CONCERN IN CONSTRUCTIVISM (F251)
Fusa Katada
THE RELATIONSHIP AMONG ICT SKILLS, TRADITIONAL READING SKILLS AND ONLINE READING ABILITY (S014)
I-Fang Liu and Hwa-Wei Ko

13:00-14:30 Lunch Break

14:30-16:30 Session FP 28.3
Technology, Learning And Expertise
(Room O142)
Chair: Rhonda Christensen

THE IMPACT OF TECHNOLOGY INTEGRATION UPON COLLEGIATE PEDAGOGY FROM THE LENS OF MULTIPLE DISCIPLINES (F030)
Joan Ann Swanson
A LEARNING SUPPORT SYSTEM REGARDING MOTION TRIGGER FOR REPETITIVE MOTION HAVING AN OPERATING INSTRUMENT (F171)
Hiroshi Toyooka, Kenji Matsuura and Naka Gotoda
TASK-BASED ASSESSMENT OF STUDENTS' COMPUTATIONAL THINKING SKILLS DEVELOPED THROUGH VISUAL PROGRAMMING OR TANGIBLE CODING ENVIRONMENTS (F386)
Takam Djambong and Viktor Freiman
FRAMEWORK FOR INTELLIGENT TEACHING AND TRAINING SYSTEMS – A STUDY OF SYSTEMS (F250)
Nikolaj Troels Graf von Malotky and Alke Martens

14:30-16:10 Session FSP 28.4
Collaborative Learning
(Room O135)
Chair: Jelke Van Der Pal

ONLINE LEARNERS' NAVIGATIONAL PATTERNS BASED ON DATA MINING IN TERMS OF LEARNING ACHIEVEMENT (F320)
Sinan Keskin, Muhittin Sahin, Adem Ozgur and Halil Yurdugul
AMAZED BY MAKING: HOW DO TEACHERS DESCRIBE THEIR PBL EXPERIENCE (F444)
Dalit Levy and Olga Dor
CONNECTIVIST COMMUNICATION NETWORKS (S189)
Ingolf Waßmann, Robin Nicolay and Alke Martens
LEARNING AND SKILLS DEVELOPMENT IN A VIRTUAL CLASS OF EDUCOMMUNICATION BASED ON EDUCATIONAL PROPOSALS AND INTERACTIONS (S469)
Maria Cristina Bohorquez Sotelo, Brigitte Julieth Rodriguez Mendoza, Sandra Milena Vega, Naydu Shirley Roja Higuera and Luisa Fernanda Barbosa Gomez

16:30-17:00 Coffee Break

17:00-18:30 Session FP 28.5
Educational Psychology
(Room O142)
Chair: George Palaigeorgiou

INCREASING STUDENTS' SCIENCE WRITING SKILLS THROUGH A PBL SIMULATION (F036)
Scott W. Brown, Kimberly A. Lawless, Christopher Rhoads, Sarah D. Newton and Lisa Lynn
THE EFFECT OF CHOOSING VERSUS RECEIVING FEEDBACK ON COLLEGE STUDENTS' PERFORMANCE (F091)
Maria Cutumisu and Daniel L. Schwartz
THE IMPACT OF MIDDLE-SCHOOL STUDENTS' FEEDBACK CHOICES AND PERFORMANCE ON THEIR FEEDBACK MEMORY (F466)
Maria Cutumisu and Daniel L. Schwartz

17:00-19:10 Session FSP 28.6
Technology, Learning and Expertise
(Room O135)
Chair: Joan Swanson

MUSIC TECHNOLOGY COMPETENCIES FOR EDUCATION: A PROPOSAL FOR A PEDAGOGICAL ARCHITECTURE FOR DISTANCE LEARNING (F029)
Fátima Weber Rosas, Leticia Rocha Machado and Patricia Alejandra Behar
E-LEARNING IN CHEMISTRY EDUCATION: SELF-REGULATED LEARNING IN A VIRTUAL CLASSROOM (S034)
Rachel Rosanne Eidelman and Yael Shwartz
RELATIONSHIP OF MOBILE LEARNING READINESS TO TEACHER PROFICIENCY IN CLASSROOM TECHNOLOGY INTEGRATION (S055)
Rhonda Christensen and Gerald Knezek
HUMAN COMPUTER INTERACTION (HCI) AND INTERNET RESIDENCY: IMPLICATIONS FOR BOTH PERSONAL LIFE AND TEACHING/LEARNING (S096)
Linda Crearie
A PORTFOLIO FOR OPTIMAL COLLABORATION OF HUMAN AND CYBER PHYSICAL PRODUCTION SYSTEMS IN PROBLEM-SOLVING (S244)
Fazel Ansari and Ulrich Seidenberg
INNOVATIVE COLLABORATIVE LEARNING STRATEGIES FOR INTEGRATED INTERACTIVE E-LEARNING IN THE 21ST CENTURY (S120)
Barbara Son

Saturday 29th, October 2016

08:30-15:45 Welcome Desk

09:30-11:00 Session FP 29.1

Exploratory Technologies

(Room: O142)

Chair: Dale S. Niederhauser

FRACTANGI: A TANGIBLE LEARNING ENVIRONMENT FOR LEARNING ABOUT FRACTIONS WITH AN INTERACTIVE NUMBER LINE (F315)

Magda Mpiladeri, George Palaigeorgiou and Charalampos Lemonidis

EVALUATION OF LEARNING UNIT DESIGN WITH USE OF PAGE FLIP INFORMATION ANALYSIS (F460)

Izumi Horikoshi, Masato Noguchi and Yasuhisa Tamura

EINSTEIN'S RIDDLE AS A TOOL FOR PROFILING STUDENTS (F394)

Vildan Özeke and Gökhan Akçapınar

09:10-11:00 Session FSP 29.2

Learner Communities And Peer-support

(Room: O135)

Chair: Dirk Tempelaar

EXPLORING STUDENTS' E-LEARNING EFFECTIVENESS THROUGH THE USE OF LINE CHAT APPLICATION (F345)

Tassaneenart Limsuthiwanpoom, Penjira Kanthawongs, Penjuree Kanthawongs and Sasithorn Suwandee

FACTORS AFFECTING PERCEIVED SATISFACTION WITH FACEBOOK IN EDUCATION? (F352)

Penjuree Kanthawongs, Penjira Kanthawongs and Chaisak Chitcharoen

STUDENTS' GOOGLE DRIVE INTENDED USAGE: A CASE STUDY OF MATHEMATICS COURSES IN BANGKOK UNIVERSITY (S348)

Krisawan Prasertsith, Penjira Kanthawongs and Tan Limpachote

AN EMPIRICAL STUDY ON THE IMPACT OF SELF-REGULATION AND COMPULSIVITY TOWARDS SMARTPHONE

ADDITION OF UNIVERSITY STUDENTS (S350)

Penjira Kanthawongs, Felicito Angeles Jabutay, Ruangrit Upalanala and Penjuree Kanthawongs

11:00-11:30 Coffee Break

11:30-12:30 Session KL2 – Keynote Presentation

(Room: O142)

FROM DIGITAL TO DOUBLE BLENDED LEARNING

by Professor Jeroen J. G. van Merriënboer, Maastricht University, The Netherlands

12:30-13:00 Reflection Papers Session

(Room: O142)

Chair: Dirk Ifenthaler

INVENTING THE INVENTED FOR STEM UNDERSTANDING (R454)

Alicia Stansell, Tandra Tyler-Wood and Christina Stansell

TEACHERS' ATTITUDE TOWARDS ICT USE IN SECONDARY SCHOOLS: A SCALE DEVELOPMENT STUDY (R122)

Mehmet Kemal Aydın, Ali Semerci and Mehmet Gürol

13:00-14:30 Lunch Break

14:30-15:40 Session FSP 29.3

Assessment Of Exploratory Technologies // Other

(Room: O142)

Chair: Maria Cutumisu

INTERACTIVE VIDEO, TABLETS AND SELF-PACED LEARNING IN THE CLASSROOM: PRESERVICE TEACHERS PERCEPTIONS (F407)

Anthia Papadopoulou and George Palaigeorgiou

ADAPTIVE GAME BASED LEARNING USING BRAIN MEASURES FOR ATTENTION – SOME EXPLORATIONS (S181)

Jelke van der Pal, Christopher Roos, Ghanshaam Sewnath and Christian Rosheuvel

EVALUATION OF THE COURSE OF THE FLIGHT SIMULATORS FROM THE PERSPECTIVE OF STUDENTS AND UNIVERSITY TEACHERS (S126)

Feyzi Kaysi, Bünyamin Bavlı and Aysun Gürol

14:30-15:40 Session FSP 29.4

Cognition In Education

(Room: O135)

Chair: Carsten Ullrich

COGNITIVE DESIGN FOR LEARNING: COGNITION AND EMOTION IN THE DESIGN PROCESS (F449)

Joachim Hasebrook

DEVELOPMENT OF CRITICAL THINKING WITH METACOGNITIVE REGULATION (S024)

Yasushi Gotoh

ENACTING STEM EDUCATION FOR DIGITAL AGE LEARNERS: THE MAKER MOVEMENT GOES TO SCHOOL (S328)

Dale S. Niederhauser and Lynne Schrum

16:00 – Social Event - Conference Tour and Dinner

Sunday 30th, October 2016

08:30-13:00 Welcome Desk

09:00-11:00 Session FSP 30.1

Technology, Learning And Expertise

(Room: O142)

Chair: Yasuhisa Tamura

MOBILE DEVICE USAGE IN HIGHER EDUCATION (F063)

Jan Delcker, Andrea Honal and Dirk Ifenthaler

FEATURES STUDENTS REALLY EXPECT FROM LEARNING ANALYTICS (F205)

Clara Schumacher and Dirk Ifenthaler

EDUCATIONAL CRITERIA FOR EVALUATING SIMPLE CLASS DIAGRAMS MADE BY NOVICES FOR CONCEPTUAL MODELING (S020)

Mizue Kayama, Shinpei Ogata, David K. Asano and Masami Hashimoto

DIGITAL NATIVES AND DIGITAL DIVIDE: ANALYSING PERSPECTIVE FOR EMERGING PEDAGOGY (S049)

Uriel U. Onye and Yunfei Du

E-LEARNING SYSTEM USING SEGMENTATION-BASED MR TECHNIQUE FOR LEARNING CIRCUIT CONSTRUCTION (S405)

Atsushi Takemura

09:10-11:00 Session FSP 30.2

Student-centered Learning

(Room: O135)

Chair: Tandra Tyler-Wood

LEARNING ANALYTICS TO UNDERSTAND CULTURAL IMPACTS ON TECHNOLOGY ENHANCED LEARNING (F027)

Jenna Mittelmeier, Dirk Tempelaar, Bart Rienties and Quan Nguyen

WIDENING AND DEEPENING QUESTIONS IN WEB-BASED INVESTIGATIVE LEARNING (F043)

Akihiro Kashihara and Naoto Akiyama

YEAR 9 STUDENT VOICES NEGOTIATING DIGITAL TOOLS AND SELF-REGULATED LEARNING STRATEGIES IN A BILINGUAL MANAGED LEARNING ENVIRONMENT (F334)

Ulla Freihofner, Simone Smala and Chris Campbell

NEW SCENARIOS FOR AUDIENCE RESPONSE SYSTEMS IN UNIVERSITY LECTURES (S340)

Daniel Schön, Stephan Kopf, Melanie Klinger and Benjamin Guthier

11:00-11:30 Coffee Break

11:30-12:50 Session FSP 30.3

Assessment of Exploratory Learning Approaches // Assessing Progress of Learning in Complex Domains

(Room: O142)

Chair: Vildan Ozeke

PURPOSEFUL EXPLORATORY LEARNING WITH VIDEO USING ANALYSIS CATEGORIES (F452)

Meg Colasante

BUILDING A LEARNING EXPERIENCE: WHAT DO LEARNERS' ONLINE INTERACTION DATA IMPLY? (F308)

Mehmet Kokoç and Arif Altun

LEARNING HOW TO WRITE AN ACADEMIC TEXT: THE EFFECT OF INSTRUCTIONAL METHOD AND REFLECTION ON TEXT QUALITY (S042)

Janneke van der Loo, Emiel Kraemer and Marije van Amelsvoort

11:30-12:30 Session FP 30.4

Learning Paradigms in Corporate Sector

(Room: O135)

Chair: Fazel Ansari

RULES FOR ADAPTIVE LEARNING AND ASSISTANCE ON THE SHOP FLOOR (F235)

Carsten Ullrich

PARTICIPATION AND ACHIEVEMENT IN ENTERPRISE MOOCS FOR PROFESSIONAL LEARNING (F421)

Florian Schwerer and Marc Egloffstein

12:50 Best Paper Awards Ceremony and Closing Session

(Room O135)

Prof. Dirk Ifenthaler