

**18th International Conference on
Cognition and Exploratory Learning in Digital Age
CELDA 2021**

CONFERENCE PROGRAM

IMPORTANT NOTICE: listed times are in **GMT+1 (Lisbon Time)**, you can check your timezone at <https://greenwichmeantime.com/time-zone/gmt-plus-1/> (you can use the provided URL to insert your location and see your time in relation to GMT+1).

Wednesday 13th, October 2021

09:45-10:00 Session O – Opening Session

OPENING SESSION

Prof. Demetrios G. Sampson, Dirk Ifenthaler and Pedro Isaías

10:00-11:00 Session KL – Keynote Presentation

“IS ROBOTICS IN EDUCATION THE RIGHT TOOL TO FACE THE FUTURE PIVOTAL CHALLENGES OF SOCIETY?”

Dr. David Scaradozzi, Department of Information Engineering, Università Politecnica delle Marche, Italy

11:05-12:25 Session FP 13.1

Virtual University

Chair: Matteo Sacchet

DEVELOPING AN ONLINE CURRICULUM FOR AN INTERNATIONAL AND INTER-DISCIPLINARY MASTER PROGRAMME. A CASE REPORT OF A DAAD FUNDED PROJECT IN GERMANY (S194)

Ly Lutter, Sabrina A. L. Frohn, Mishael Gabrielle Pizana Cruz and Tobias Thelen

EFFECTS OF THE LOCKDOWN ON PERCEIVED STRESS AND WELL-BEING: A STUDY ON ITALIAN UNIVERSITY IN THE FIRST PERIOD OF ISOLATION DUE TO COVID-19 (F136)

Oronzo Parlangei, Paola Palmitesta, Stefano Guidi, Ileana Di Pomponio, Margherita Bracci and Enrica Marchigiani

TOWARDS A USER FOCUSED DEVELOPMENT OF A DIGITAL STUDY ASSISTANT THROUGH A MIXED METHODS DESIGN (F137)

Katharina Schurz, Johannes Schruppf, Felix Weber, Maren Lübcke, Funda Seyfeli and Klaus Wannemacher

12:25-14:00 Lunch Break

14:00-16:05 Session FP 13.2
Exploratory Technologies // Other
Chair: Nils Kristian Hansen

VROBOTATOR: A VIRTUAL ROBOT FACILITATOR OF SMALL GROUP DISCUSSIONS FOR K-12 (S161)
Elinor Mizrahi, Noa Danzig and Goren Gordon
SCHOOL EDUCATION IN A VIRTUAL SPACE: BETWEEN DAMAGE CONTROL, SCHOOL DEVELOPMENT AND INNOVATION (R126)
Annika Wilmers and Bettina Waffner
POSTSYNAPTIC SIMULATOR: AN OPEN-SOURCE VISUAL INTERACTIVE SIMULATION FOR TEACHING ACTION POTENTIALS (F046)
Alexander Salgo, Galen O'Shea, Kim Hellemans and Jim Davies
DESIGN OF AN EASY-TO-USE MOBILE AUGMENTED REALITY LEARNING SETTING BY MEANS OF A CONJECTURE MAP (F229)
Luca Moser
STUDYING DESIGN ATTRIBUTES OF VIRTUAL CHARACTERS TO SUPPORT STUDENTS' PERCEIVED EXPERIENCES IN VIRTUAL REALITY LECTURES (F232)
Brittany Garcia, Soo Chun, Caleb Kicklighter, Bin Mai, Marco Palma and Jinsil Hwaryoung Seo

16:00-16:15 Coffee Break

16:15-18:30 Session FSRP 13.3
Student-centered Learning
Chair: John Hatcher III

CAN A LEARNING ANALYTICS DASHBOARD PARTICIPATIVE DESIGN APPROACH BE TRANSPOSED TO AN ONLINE-ONLY CONTEXT? (F142)
Katia Oliver-Quelebec, François Bouchet, Thibault Carron and Claire Pinçon
PROMOTING SELF-REGULATED LEARNING STRATEGIES FOR FIRST-YEAR STUDENTS THROUGH THE COMPER SERVICE (F170)
Laëtitia Pierrot, Christine Michel, Julien Broisin, Nathalie Guin, Marie Lefevre and Rémi Venant
MATHEMATICS EDUCATION IN LOWER SECONDARY SCHOOL: FOUR OPEN ONLINE COURSES TO SUPPORT TEACHING AND LEARNING (F184)
Alice Barana, Francesca Casasso, Cecilia Fissore, Marina Marchisio and Fabio Roman
A COMPARATIVE ANALYSIS OF APPROACHES TO DESIGN AND CAPITALIZE DATA INDICATORS (F134)
Albane Gril, Madeth May, Valérie Renault and Sébastien George
APPLY RESEARCH-SUPPORTED LEARNER-CENTERED PEDAGOGIES TO ENSURE ACADEMIC INTEGRITY AND STUDENT SUCCESS IN DIGITAL ENVIRONMENTS (R051)
Yaping Gao

Thursday 14th, October 2021

08:50-10:45 Session FSRP 14.1
Educational Psychology
Chair: Thomas Keller

THE AGENT'S SMILE: IMPACTS OF ARTIFICIALLY GENERATED PEDAGOGICAL AGENTS ON RISK-TAKING (F069)
Patrick Jost
ESTIMATING LEARNING ASSISTANCE SKILLS USING LEARNING ANALYTICS (F164)
Hiroyuki Watanabe, Yoshiko Goda, Atsushi Shimada and Masanori Yamada
THE ROLE OF AUTONOMOUS AGENTS IN TRAINING SCHOOL PSYCHOLOGY GRADUATE STUDENTS (S061)
Rogério Eduardo da Silva and Elise N. Hendricker
PILOT STUDY OF THE RELATIONSHIP BETWEEN VOCABULARY ABILITY AND LEARNING PERFORMANCE FOR UNFAMILIAR KNOWLEDGE IN ONLINE VIDEO CLASSES (S155)
Kaori Tamura
ENHANCING EXECUTIVE FUNCTIONS IN PRESCHOOLERS: TECHNOLOGIES YES OR NOT? (R085)
Sabrina Panesi and Lucia Ferlino

09:05-10:45 Session FSP 14.2
Technology And Mental Models
Chair: Marco Garcia-Vaquero

EXPLORING STUDENTS' COMPUTATIONAL THINKING FOR MATHEMATICAL PROBLEM-SOLVING: A CASE STUDY (F076)
Nils Kristian Hansen and Said Hadjerrouit
MIND-WANDERING DETECTION MODEL WITH ELECTROENCEPHALOGRAPH (F225)
Chutimon Rungsilp, Krerk Piromsopa, Athaphon Viriyopase and Kongpop U-Yen
TOWARDS A CONCEPT FOR A HIDDEN OBJECT GAME WITH DYNAMIC DIFFICULTY ADJUSTMENT (S177)
Daniel Atorf, Sergius Dyck and Jonas Steinbach
TOWARDS A WEB-BASED HIERARCHICAL GOAL SETTING INTERVENTION FOR HIGHER EDUCATION (S140)
Felix Weber, Jana Kernos, Mae Grenz and Jueun Lee

10:45-11:00 Break

11:00-12:30 Session FP 14.3

Student-centered Learning // Technology, Learning And Expertise

Chair: Said Hadjerrouit

A MULTI-LAYER ARCHITECTURE FOR AN E-LEARNING HYBRID RECOMMENDER SYSTEM (F080)

Lisa Roux, Pantxika Dagorret, Patrick Etcheverry, Thierry Nodenot, Christophe Marquesuzaa and Philippe Lopisteguy

UNDERSTANDING STUDENT SLIDE READING PATTERNS DURING THE PANDEMIC (F083)

Boxuan Ma, Min Lu and Shin'ichi Konomi

CRITERION VALIDITY AND RELIABILITY OF PERCEIVED STRESS SCALE (PSS) IN A STUDENT POPULATION DURING COVID-19 PANDEMIC (F186)

Anna Berardi, Ilaria Ruotolo, Giovanni Sellitto, Francescaroberta Panuccio, Antonella Polimeni, Donatella Valente, Marco Tofani and Giovanni Galeoto

11:00-12:40 Session FP 14.4

Technology, Learning And Expertise

Chair: Ileana Di Pomponio

MAXIMIZING THE POTENTIAL OF TRANSPARENT SIMULATIONS BY COMBINING PERFORMANCE GOALS WITH LEARNING GOALS AND EXPLORATORY GUIDANCE IN A DYNAMICALLY COMPLEX TASK (F158)

Carlos Capelo and Renato Pereira

ONLINE UNIVERSITY ORIENTATION MODELS FOR STUDENT TRANSITION BETWEEN SECONDARY AND TERTIARY EDUCATION (F212)

Francesco Floris, Marina Marchisio, Matteo Sacchet, Tiziana Margaria and Sergio Rabellino

DOES THE LEVEL OF POLITENESS USED BY A SOCIAL ROBOT AFFECT CHILDREN'S LEARNING? (S207)

Hsiu-Feng Wang

ADAPTIVE RELEASE LEARNING PATHS TO MOTIVATE ACTIVE LEARNING AND ENGAGEMENT IN STUDENTS (S150)

Pavani Vemuri, Monique Snoeck and Stephan Poelmans

12:40 – 14:00 Break

14:00-16:00 Session FSP 14.5

Exploratory Technologies // Learning Communities & Web Service Technologies

Chair: Dirk Ifenthaler

360°-VIDEO REFLECTION IN TEACHER EDUCATION: A CASE STUDY (F163)

Eric Tarantini

THE EFFECT OF SOCIAL CLOSENESS ON PERCEIVED SATISFACTION OF COLLABORATIVE LEARNING (F063)

Shihui Feng, Shuming Qiu, David Gibson and Dirk Ifenthaler

CREATING A MARKETPLACE OF IDEAS: EQUITY IN EDUCATION AND TECHNOLOGY DURING COVID-19 (S066)

John W. Hatcher III and Takashi Crum

A DIGITAL EDUCATIONAL GAME FOR PRACTICING OER EDITING (S235)

Lubna Ali, Vu Tuan Tran, Rene Roepke and Ulrik Schroeder

TEACHERS' PERCEPTIONS REGARDING THE USE OF INTERACTIVE WHITEBOARDS TO ENHANCE ELEMENTARY LITERACY DEVELOPMENT (S135)

Takashi Crum and John W. Hatcher III

14:30-16:00 Session FSP 14.6

Assessment Of Exploratory Learning Approaches // Assessing Progress Of Learning In Complex Domains

Chair: Marco Garcia-Vaquero

EXPLORING NUMBAS FORMATIVE FEEDBACK FOR TEACHING AND LEARNING MATHEMATICS:

AN AFFORDANCE THEORY PERSPECTIVE (F059)

Said Hadjerrouit and Celestine Ifeanyi Nnagbo

ACTION RESEARCH TO STUDY PROBLEM SOLVING SKILLS OF PRIMARY SCHOOL PHYSICS STUDENTS (F222)

Jörgen Ivar Sikk and Kairit Tammets

INTERNAL CONSISTENCY, RESPONSIVENESS AND MINIMAL DETECTABLE CHANGE OF THE TECO IN THE BACHELOR'S DEGREE COURSE IN PEDIATRIC NURSING AT THE "SAPIENZA" UNIVERSITY OF ROME: A CROSS SECTIONAL STUDY (F198)

Giovanni Galeoto, Giuliana D'Elpidio, Rosaria Alvaro, Anna Maria Zicari, Donatella Valente and Marianna Riccio

16:00-16:15 Break

16:15-18:15 Session FP 14.7
Technology, Learning And Expertise
Chair: Dirk Tempelaar

STUDENTS' PREFERENCES AND VIEWS ABOUT LEARNING IN A SMART MOOC INTEGRATED WITH INTELLIGENT TUTORING (F074)

Gizem Karaođlan Yılmaz, Mustafa Tepgeç, Cennet Terzi Müftüođlu, Sema Sulak, Muhittin Şahin, Furkan Aydın, Ramazan Yılmaz and Halil Yurdugül

LEARNING ANALYTICS AND ITS DATA SOURCES: WHY WE NEED TO FOSTER ALL OF THEM (F172)

Dirk Tempelaar

A REVIEW OF EDUCATIONAL RECOMMENDER SYSTEMS FOR TEACHERS (F081)

Mbarek Dhahri and Mohamed Koutheair Khribi

A CASE STUDY OF STUDENTS' VIEWS ON THE DIGITAL SKILLS NEEDED FOR THE LABOUR MARKET (F204)

Anda Zeidmane and Anna Vintere

Friday 15th, October 2021

08:45-10:45 Session FP 15.1
Assessment Of Exploratory Technologies
Chair: Dirk Ifenthaler

USING ADAPTIVE MASTERY TESTING IN ASSESSMENT MANAGEMENT SYSTEMS (F071)

Muhittin Şahin, Furkan Aydın, Sema Sulak, Cennet Terzi Müftüođlu, Mustafa Tepgeç, Gizem Karaođlan Yılmaz, Ramazan Yılmaz and Halil Yurdugül

COMPUTATIONAL TECHNIQUES FOR DATA SCIENCE APPLIED TO BROADEN THE KNOWLEDGE BETWEEN CITIZEN

SCIENCE AND EDUCATION (F156)

Miriam Calvera-Isabal, Nuria Varas and Patricia Santos

EXPLORING PREDICTING PERFORMANCE OF ENGINEERING STUDENTS USING DEEP LEARNING (F180)

Imran Zuolkernan

EVALUATING VISUALIZATION FOR SLIDE-BASED INVESTIGATIVE LEARNING WITH CONNECTION BETWEEN

PRESENTATION SLIDES (F200)

Mitsuhiro Goto and Akihiro Kashihara

10:45-11:00 Break

11:00-12:30 Session FSP 15.2
Learning Paradigms In Academia // Other
Chair: Elisa Roux

LESSON LEARNED FROM AN EXPERIENCE OF TEACHING SUPPORT IN HIGHER EDUCATION FOR A DIGITAL TRANSITION IN THE NEW SCENARIO CREATED BY COVID-19 (F146)

Barbara Bruschi, Francesco Floris, Marina Marchisio and Matteo Sacchet

DESIGN THINKING ONLINE: APPROACHING CONSTRUCTIVE LEARNING IN FOOD SCIENCE (S060)

Marco Garcia-Vaquero

LEARNER INTERACTIONS AND BEHAVIORAL PATTERNS IN ENTERPRISE MOOCS (S205)

Marc Egloffstein, Muhittin Şahin, Max Bothe, Tobias Rohloff, Nathanael Schenk, Florian Schwerer and Dirk Ifenthaler

SUSTAINABLE BLENDED TEACHING PRACTICES: LESSONS LEARNED FROM INSTRUCTOR PERSPECTIVES (S185)

Pavani Vemuri, Stephan Poelmans, Veerle van Rompaey, Yi-shan Tsai, Mark Brown and Dragan Gasevic

12:30 Best Paper Awards Ceremony and Closing Session

Profs. Demetrios G. Sampson, Dirk Ifenthaler and Pedro Isaias