Thursday 7th, November 2019

08:15-19:40 Welcome Desk (closes for lunch – 13:10 to 14:20)

09:30-09:50 Session O – Opening Session
(Room: Aula Magna)
OPENING SESSION
Profs. Dirk Ifenthaler, Hans Weghorn, Maria Pietronilla Penna and Maria Lidia Mascia

10:00-11:00 Session KL – Keynote Presentation
(Room: Aula Magna)
“GAME LEARNING ANALYTICS FOR EVIDENCE-BASED SERIOUS GAMES”
Dr. Baltasar Fernández Manjón, Director of the e-learning Research Group e-UCM, Complutense University of Madrid (UCM), Spain

11:00-11:30 Coffee Break

11:30-13:00 Session FP 7.1
Collaborative Learning
(Room: Aula Magna)
Chair: Laura Francesca Scalas
USING COOPERATIVE TEACHING TECHNIQUES IN ENGINEERING COURSES. THE JIGSAW CASE (F182)
Maria-Cristina Marinescu and Jose L. Marzo
CYBERNETICS AND PRECURSORS OF PROMOTING CRITICAL THINKING - A WAY TO CHANGE THE SCHOOL (F198)
Teodora Surubaru and Dorin Isoc
EXAMINING LANGUAGE-AGNOSTIC METHODS OF AUTOMATIC CODING IN THE COMMUNITY OF INQUIRY FRAMEWORK (F234)
Yuta Taniguchi, Shin’ichi Konomi and Yoshiko Goda

11:30-13:20 Session FSP 7.2
Learning Communities & Web Service Technologies // Pedagogical Issues Related with Learning Objects
(Room: 1)
Chair: Dirk Tempelaar
ADAPTIVE SMART TV AS A SOCIAL LANGUAGE LEARNING PLATFORM (F089)
María José Naranjo Sánchez, Mª Mercedes Rico García, Héctor Sánchez Santamaría and Jesús Salguero Serrat
UNIVERSITY TUTORING ACTIONS USING AN INTEGRATED ONLINE PLATFORM (F081)
Cecilia Fissore, Francesco Floris, Marina Marchisio and Sergio Rubellino
THE DEVELOPMENT OF STUDENTS’ ALGORITHMIC COMPETENCE BY MEANS OF ELECTRONIC LEARNING RESOURCES (F069)
Evgenia V. Baranova, Irina V. Simonova, Mikhail I. Bocharov and Victoria V. Zabolotnaya
AN EXPLORATORY STUDY OF TRIAL AND ERROR IN THE DESIGN AND PRACTICE OF UNDERGRADUATE SEMINARS IN JAPAN (S181)
Wakako Fashikida
### Lunch Break

**14:30-16:20 Session FSP 7.3**

**Assessment of Exploratory Technologies**  
(Room: Aula Magna)  
**Chair:** Jodie Freeman

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**14:30-16:30 Session FP 7.4**

**Exploratory Technologies**  
(Room: I)

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### Coffee Break

**16:30-17:00 Session FSP 7.5**

**Student-centered Learning**  
(Room: Aula Magna)  
**Chair:** Josef Guggemos

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### Coffee Break

**17:00-19:30 Session FSP 7.5**

**Student-centered Learning**  
(Room: Aula Magna)  
**Chair:** Josef Guggemos

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### Coffee Break

**17:00-19:05 Session FSRP 7.6**

**Technology, Learning and Expertise // Life-long Learning**  
(Room: I)  
**Chair:** Gail Drennan

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<td>Janet Condy, Heather Phillips and Chantcytaire Tiba</td>
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<td>Diversity as an Advantage: An Analysis of Career Competencies for IT Students (F226)</td>
<td>Patricia Brockmann, Heidi Schuhhauer and Anika Hinze</td>
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<td>Digital Storytelling: Student Vulnerability During the Process and Its Impact on Teaching and Learning One Year Later (F183)</td>
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<td>Lifelong Self-Directed Learning in the Digital Age: An Orientation of Current Software Tools Supporting Experts in Maintaining and Updating Their Knowledge (S105)</td>
<td>Jodie Freeman, Andreas Raabe, Felix Schmitz and Sissel Guttormsen</td>
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<td>Embedding Virtual Reality Into Competence Recognition (R195)</td>
<td>Merja Drake</td>
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Friday 8th, November 2019

08:15-15:45 Welcome Desk (closes for lunch – 13:00 to 14:10)

08:50-11:00 Session FSP 8.1
Technology, Learning and Expertise // Other
(Room: Aula Magna)
Chair: Janet Condy
THE LEARNING DESIGN FOR MEDIATION TRAINING THROUGH ONLINE ENVIRONMENTS: GETTING TO THE FIFTH LANGUAGE SKILL (F091)
Mª Mercedes Rico García, Laura V. Fielden Burns and María José Naranjo Sánchez
GOING BEYOND TECHNOLOGICAL AFFORDANCES - ASSESSING ORGANIZATIONAL AND SOCIO-INTERACTIONAL AFFORDANCES (F130)
Kirsu Laitinen, Timo Laitinen, Rajia Hämäläinen and Kirsi Heinonen
AUTOMATIC ASSESSMENT TO ENHANCE ONLINE DICTIONARIES CONSULTATION SKILLS (F229)
Carla Marello, Marina Marchisio, Marta Pulvirenti and Cecilia Fissore
EDUCATION SYSTEM FOR ELECTRONIC CIRCUIT CONSTRUCTION INVOLVING SOLDERING ON A CIRCUIT BOARD (S215)
Atsushi Takemura
BENEFITS AND RISKS OF ICTS AND THEIR APPLICATIONS: AN ATTEMPT TO ANALYZE FREE DESCRIPTIVE ANSWERS (S157)
Yukiko Maruyama

08:50-11:00 Session FSP 8.2
Educational Psychology // Other
(Room: Room I)
Chair: Kazuhisa Miwa
THE WEIGHT OF EXPECTANCY-VALUE AND ACHIEVEMENT GOALS ON SCIENTIFIC CAREER INTEREST AND MATH ACHIEVEMENT (F037)
Laura Francesca Scalas and Daniela Fadda
THE RELATION BETWEEN SELF-DISCLOSURE OF STUDENTS TO THEIR PARENTS AND MATHEMATICS SCORE IN COMPUTER-BASED NATIONAL EXAM (UNBK) (F126)
Moch Abdah, Bagus Hary Prakoso, Dian Rohdian and Jaka Warsihna
SOFTWARE FACTORY PROJECT FOR ENHANCEMENT OF STUDENT EXPERIENTIAL LEARNING (F093)
Muhammad Ovais Ahmad and Kari Liukkanen
NUMERACY SKILLS EMPOWERMENT FROM PRESCHOOL (S192)
Maria Lidia Mascia, Maria Chiara Fastame, Mirian Agus and Maria Pietronilla Penna
MENTORING: A FOCUS ON ETHNIC IDENTITY DEVELOPMENT AMONG AFRICAN AMERICAN MALE COLLEGE FRESHMEN IN THE DIGITAL AGE (S209)
John W. Hatcher III

11:00-11:30 Coffee Break

11:30-13:00 Session FP 8.3
Assessment of Exploratory Learning Approaches
(Room: Aula Magna)
Chair: Merja Drake
EXPLORING THE EFFECTS OF STRUCTURAL TRANSPARENCY AND EXPLORATORY GUIDANCE IN SIMULATION-BASED LEARNING ENVIRONMENTS (F017)
Carlos Capelo and Ana Lorga
USING KAHOOT TO IMPROVE STUDENTS’ ACHIEVEMENT AND CRITICAL THINKING IN UNDERGRADUATE OF PSYCHOLOGY STUDENTS (F113)
Joko Warsihna, Zulmi Ramdani and Bagus Hary Prakoso
BECOMING STORYTELLERS: IMPROVING ESL STUDENTS’ ACADEMIC ENGAGEMENT AND 21ST CENTURY SKILLS THROUGH INTERACTIVE DIGITAL STORYTELLING (F173)
Annalisa Raffone and Johanna Monti
11:30-13:10 Session FSP 8.4
Technology and Mental Models
(Room: Room I)
Chair: Bagus Hary Prakoso

LEARNING ENGAGEMENT, LEARNING OUTCOMES AND LEARNING GAINS: LESSONS FROM LA (F022)
Sergei A. Kostousov and Irina V. Simonova

VISUAL MODELING FOR EXPLORATORY PROBLEM SOLVING ON COMPUTER SCIENCE LESSONS (F046)
Dirk Tempelaar, Bart Rienties and Quan Nguyen

DIGITAL ETHNICITY – EMERGING PROFILES (S132)
Nan B. Adams and Thomas A. DeVaney

MIRELE: A MIXED-REALITY SYSTEM FOR LEARNING A TASK DOMAIN (S149)
Zardosht Hodaie, Sajjad Taheri and Bernd Brügge

13:00-14:10 Lunch Break

14:30-15:20 Session 8.5
Educational Psychology // Cognition In Education
(Room: Aula Magna)
Chair: Nan Adams

INTERACTION EFFECTS OF TEACHERS’ EDUCATIONAL POLICY AND STUDENTS’ LEARNING GOAL ORIENTATION ON STUDENTS’ LEARNING-AS-DUTY CONCEPTION (F158)
Mai Yokoyama and Kazuhisa Miwa

EXAMINING THE IMPACT OF ONLINE CASE-BASED DISCUSSIONS ON STUDENTS’ PERCEIVED COGNITIVE PRESENCE, LEARNING AND SATISFACTION (S078)
Ayesha Sadaf and Stella Kim

15:45 – Social Event - Conference Tour and Dinner

Saturday 9th, November 2019

08:10-13:15 Welcome Desk

08:40-11:00 Session FSP 9.1
Technology, Learning and Expertise
(Room: Aula Capitini)
Chair: Timo Lainema

VALUE ADDED TEACHERS: THE LEGACY OF EDUCATIONAL TECHNOLOGY COACHES (F072)
Gail Drennan

A SMARTPHONE GAME TO PROMOTE SELF-LEARNING IN CHEMISTRY (F236)
Krittiya Sakrisathaporn and Patcharaphon Sribanthankul

K-TIPS: KNOWLEDGE EXTENSION BASED ON TAILOR-MADE INFORMATION PROVISION SYSTEM (F159)
Keita Nakayama, Atsushi Shimada, Tsubasa Minematsu, Yuta Taniguchi and Rin-Ichiyo Taniguchi

CLUSTERING OF LEARNERS BASED ON KNOWLEDGE MAPS (F179)
Akira Ohno, Atsushi Shimada, Tsubasa Minematsu and Rin-Ichiyo Taniguchi

A DISTRIBUTED CONTENT ADDRESSABLE NETWORK FOR OPEN EDUCATIONAL RESOURCES (S175)
Stephen Downes
09:15-11:00 Session FP 9.2
Collaborative Learning
(Room: 8A)
**Chair:** John Hatcher III

| Open Distance Learning and Immersive Technologies: A Literature Analysis (F221) |
| Afiska Ntaba and Mmaki Jantjies |
| WHAT PREDICTS CHEATING AMONG STUDENTS? A CROSS CULTURAL COMPARISON BETWEEN ONLINE AND FACE-TO-FACE COURSES (F067) |
| Yovav Eshet, Yehuda Peled, Keren Grinautski and Casimir Barczyk |
| Collaborative Learning: Collegiate Pedagogy Utilizing Web Conferencing (F085) |
| Joan Ann Swanson, Susan L. Renes and Anthony T. Strange |
| Network Analytics of Collaborative Problem-Solving (F142) |
| Simon Kerrigan, Shihui Feng, Rupa Vuthaluru, Dirk Ifenthaler and David Gibson |

11:00-11:30 Coffee Break

11:30-12:50 Session FSP 9.3
Cognition in Education
(Room: Aula Capitini)
**Chair:** Carlos Capelo

| Chess Training Effect on Meta-Cognitive Processes and Academic Performance (F099) |
| Carla Meloni and Rachele Fanari |
| A Unipolar Concentration of English and the Multilingual-Semilingual Paradox (F123) |
| Fusa Katada |
| Case Study of Teacher’s On Going Cognition Using VR (S035) |
| Takashi Ikuta, Yasushi Gotoh and Wataru Uchiyama |

11:30-13:00 Session FP 9.4
Assessing Progress of Learning in Complex Domains
(Room: 8A)
**Chair:** Maria Chiara Fastame

| Measuring Computational Thinking – Adapting a Performance Test and a Self-Assessment Instrument for German-Speaking Countries (F063) |
| Josef Guggemos, Sabine Seufert and Marcos Román-González |
| Visualization of Learning Log of Web-Based Application for Understanding the Structure of Geometric Proofs (F107) |
| Satomi Hamada and Masanori Yamada |
| Design of Learning Analytics Dashboard Supporting Metacognition (F110) |
| Li Chen, Min Lu, Yoshiko Goda and Masanori Yamada |

13:00 Best Paper Awards Ceremony and Closing Session
(Room: 8A)
**Profs.** Dirk Ifenthaler, Maria Pietronilla Penna and Maria Lidia Mascia