



TEEM'16

TECHNOLOGICAL ECOSYSTEMS
FOR ENHANCING MULTICULTURALITY
SALAMANCA 2-4 NOVEMBER 2016

PROGRAMME

2nd- 4st NOVEMBER 2016 IN SALAMANCA

Location:

Instituto Universitario de Ciencias de la Educación (IUCE)
University of Salamanca
Faculty of Education
Paseo Canalejas, 169
37008 Salamanca, Spain
Phone: (+34) 923 294500 (ext. 3433)
Email: info@teemconference.eu

WEDNESDAY, 2nd NOVEMBER 2016

- 9.00 – 14.00 Registration. Help Desk.**
16.00 – 19.30 *Location: GRIAL Office (IUCE)*
- 9.30 – 10.30 TEEM 2016 Conference Opening Session**
9.30 – 10.00 Authorities Welcome speech
10.00 – 10.30 Presentation of the H2020 WYRED Project
Location: Assembly Hall. Faculty of Education.
- 10.30 – 11.00** Coffee break
Location: IUCE
- 11.00 – 14.00** Sessions: Track 10, 12 and 13.
14.00 – 16.00 Lunch
16.00 – 20.00 Sessions: Track 1, 6, 11, 12.
21.30 Gala dinner
Location: La Hoja 21 (C/ San Pablo, 21)

TRACK 10. TEACHER EDUCATION RESEARCH AND ICT

Wednesday, 2nd November
Room 17A (IUCE)

Presentation: Teacher education research and ICT. *Juan José Mena and Maria Assunção Flores*

- 11.00 – 11.15** Towards an online disciplines knowledge capitalization for MOOCs. *Nacera Hammid and Farida Bouarab-Dahmani*



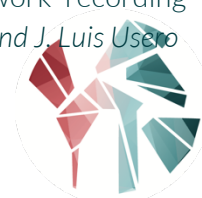
- 11.15 – 11.30** Technological needs calling for the application of coaching in university advising: Functional proposal. *Jose Antonio Montero, David Fonseca, Lluís Vicent, August Climent, Xavier Canaleta and Sergi Villagrasa*
- 11.30 – 11.45** Teachers' use of technology in the university classroom. *Albert Cubeles and David Riu*
- 11.45 – 12.00** Fostering Teacher Development Using Simple Technologies to Listen and Respond to Accounts of Learning from Experience. *Tom Russell*
- 12.00 – 12.15** Recognition of an optimal study modality in a continuous education program in Mexico. *Adriana-Irene Carrillo-Rosas and Leonardo Glasserman*
- 12.15 – 12.30** Enjoyment, Resistance to Change and mLearning Acceptance Among Pre-Service Teachers. *José Carlos Sánchez Prieto, Susana Olmos-Migueláñez and Francisco José García Peñalvo*
- 12.30 – 12.45** Evidence-based Innovation methodology as a way to produce Open Educational Resources by in-service teachers. *Celia Paola Sarango-Lapo, Juanjo Mena and María-Soledad Ramírez-Montoya*
- 12.45 – 13.00** Methodological proposal for massive training of Ecuador's civil servants, in the educational field, through MOOC courses on: Virtual Learning Environments. *Lena Ivannova Ruiz Rojas and Francisco J. García Peñalvo*
- 13.00 – 13.15** An approach to Spanish Primary School Teachers' attitudes towards collaborative learning with video games and the influence of teacher training. *Marta Martín Del Pozo, Verónica Basilotta Gómez-Pablos and Ana García-Valcárcel Muñoz-Repiso*
- 13.15 – 13.30** Creation and assessment of Learning Objects for the definition and geometric representation of operations and applications of vectors. *Claudia Orozco and Erla Mariela Morales Morgado*
- 13.30 – 13.45** The use of wiki as a learning tool by pre-service Primary Education teachers: a pre-placement school study. *Luis Gonzalez Rodero*

TRACK 12. EDUCATIONAL INNOVATION

Wednesday, 2nd November
Room 16A (IUCE)

Presentation: Educational Innovation. *Ángel Fidalgo and María Luisa Sein-Echaluze*

- 11.00 – 11.15** Evaluation of teamwork competence acquisition by using CTMTC methodology and Learning Analytics Techniques. *Miguel Ángel Conde, Francisco Jesús Rodríguez-Sedano, Lidia Sánchez-González, Camino Fernández-Llamas, Francisco J. Rodríguez-Lera and Vicente Matellan-Olivera*
- 11.15 – 11.30** Systematic mapping of the literature: social innovation laboratories for the collaborative construction of knowledge from the perspective of open innovation. *José Antonio Yañez-Figueroa, María Soledad Ramírez-Montoya and Francisco J. García-Peñalvo.*
- 11.30 – 11.45** Motivating students of Chemical Engineering through a cooperative work recording educational videos. *M. Dolores Merchán, M. Mar Canedo, F. Javier López-Gil and J. Luis Usón*



- 11.45 – 12.00** Training to capture software requirements by role playing. *Pablo Delatorre and Alberto Salguero*
- 12.00 – 12.15** The Use of Online Quizzes for Continuous Assessment and Self-Assessment of Second-Language Learners. *Ana María Pinto-Llorente, M^a Cruz Sánchez-Gómez, Francisco José García-Peñalvo and Sonia Casillas-Martín*
- 12.15 – 12.30** A strategy to reduce the blank answers on math tests at first engineering courses. *Susana Nieto and Higinio Ramos*
- 12.30 – 12.45** Dynamic visualization of the relative position of straight lines on the plane using Mathematica. *Higinio Ramos and Susana Nieto*
- 12.45 – 13.00** Betting on innovation and experiments. *Ana Pérez Antón, M. Jesús Santos, M. Dolores Merchán and Cristina Prieto*
- 13.00 – 13.15** Incidence of Hearing Training in Musical Reading at First Sight. An exploratory research. *Rubén Vázquez Sánchez, Rocío Chao-Fernández and Aurelio Chao-Fernández*
- 13.15 – 13.30** Analyzing navigation logs in MOOC: the Coursera case. *Martín Alonso Mercado-Varela, Alicia García Holgado, Francisco José García Peñalvo and María Soledad Ramírez Montoya*

Wednesday, 2nd November
Room 12A (IUCE)

- 16.00 – 16.15** Relation between adaptive learning actions and profiles of MOOCs users. *Dolores Leris, Miguel Hernández, María Luisa Sein-Echaluze and Ángel Fidalgo*
- 16.15 – 16.30** Potential of the MOOC of MiríadaX for the formation of learning communities. *Silmará Marchena, Erla Morales-Morgado and Vanessa Izquierdo*
- 16.30 – 16.45** A3bycomp: a software tool to help social organizations to manage skills. *Daniel Clavero, Miguel Ángel Verdugo and Maria Cruz Sánchez*
- 16.45 – 17.00** ECO European Project: Inclusive Education through Accessible MOOCs. *Sara Osuna Acedo and Sara Tejera Osuna*
- 17.00 - 17.15** A cross-platform interoperable component for course analytics. *Daniel Pérez Berenguer and Jesús García Molina*
- 17.30 – 18.00** **Coffee Break**
- 18.00 – 18.15** VISIR's Usage as an Educational Resource: a Review of the Empirical Research. *Natércia Lima, Clara Viegas, Gustavo Alves and Francisco José García-Peñalvo*
- 18.15 – 18.30** How Wiki-based Tasks, and Forums Favor University Students' Writing Skills and Promote Collaborative Autonomy. *Ana María Pinto-Llorente, M^a Cruz Sánchez-Gómez, Francisco José García-Peñalvo and Marcos Cabezas-González*
- 18.30 – 18.45** Leveraging chatbots to improve self-guided learning through conversational quizzes. *Juan Antonio Pereira*



- 18.45 – 19.00** ICT as an interdisciplinary learning platform of Mathematics, Music and Arts in Secondary Education. *Rocío Chao-Fernández, Dorinda Mato-Vázquez and Vicente A. López-Chao*
- 19.00 – 19.15** Study of the Methodologies used by the Teaching staff of Graphic Expression for adaptation to European Higher Education Area. University of Galice Case (Spain). *Vicente López-Pena, Vicente A. López-Chao and Darío Ramiro Aparicio*
- 19.15 – 19.30** Case study: Malware propagation models for undergraduate engineering students. *Araceli Queiruga Dios, Angel Martin Del Rey, Ascensión Hernández, Jesus Martin-Vaquero, Luis Hernandez Encinas and Gerardo Rodriguez Sanchez*
- 19.30 – 19.45** Perception about Augmented Reality and Mobile Pedestrian Navigation tools with heritage content in the field of education. *Jorge Joo, Fernando Martínez-Abad and José Rafael García-Bermejo*

TRACK 13. NEW TRENDS IN DIGITAL HUMANITIES

Wednesday, 2nd November
Room 12A (IUCE)

Presentation: New Trends in Digital Humanities. *Roberto Therón and Eveline Wandl-Vogt*

- 11.00 – 11.30** Extracting static and dynamic model elements from textual specifications in humanities. *Patricia Martin-Rodilla and Cesar Gonzalez-Perez.*
- 11.30 – 12.00** What is translational literature and how to classify it? Crowd-sourcing as a starting point for corpus building and type distinction in Comparative Literature. *Christine Ivanovic and Barbara Seidl.*
- 12.00 – 12.30** Engaging Students in Curriculum Development: The Case of an Undergraduate Course in Digital Humanities. *Esperanza Román Mendoza*
- 12.30 – 13.00** New insights into translation-oriented, technology intensive localiser education: accessibility as an opportunity. *Jesús Torres Del Rey and Silvia Rodriguez Vázquez.*
- 13.00 – 13.30** From syllables, lines and stanzas to linked open data: standardization, interoperability and multilingual challenges for digital humanities. *Elena González-Blanco García, Mara Manailescu and Salvador Ros*
- 13.30 – 14.00** A spatio-temporal visual analysis tool for historical dictionaries. *Alejandro Benito, Antonio G. Losada, Roberto Therón, Amelie Dorn, Melanie Selmann and Eveline Wandl-Vogt.*



TRACK 1. COMPUTATIONAL THINKING IN PRE-UNIVERSITY EDUCATION

Wednesday, 2nd November

Room 17A (IUCE)

Presentation: Computational thinking in pre-university education. *Francisco J. García-Peñalvo*

- 16.00 – 16.15** A survey of resources for introducing coding into schools. *Francisco J. García-Peñalvo, Angela Marie Rees, Jenny Hughes, Ilkka Jormanainen, Tapani Toivonen, Jens Vermeersch*
- 16.15 – 16.30** From computational thinking to coding and back. *Koen DePryck*
- 16.30 – 16.45** Smart Textile objects and conductible ink as a context for arts based teaching and learning of computational thinking at primary school. *Daniela Reimann and Christiane Maday*
- 16.45 – 17.00** Computational thinking beyond STEM: an introduction to “moral machines” and programming decision making in Ethics classroom. *Antonio M. Seoane Pardo*
- 17.00 – 17.15** Developing Computational Thinking via the Visual Programming Tool: Lego Education WeDo. *Ana María Pinto-Llorente, Sonia Casillas-Martín, Marcos Cabezas-González and Francisco José García-Peñalvo.*
- 17.30 – 18.00** **Coffee Break**
- 18.00 – 18.15** Does computational thinking correlate with personality? The non-cognitive side of computational thinking. *Marcos Román-González, Juan-Carlos Pérez-González, Jesús Moreno-León and Gregorio Robles.*
- 18.15 – 18.30** Analysing the attitude of students towards robots when lectured on programming by robotic or human teachers. *Miguel Ángel Conde, Camino Fernández Llamas, Francisco Javier Rodríguez-Lera, Francisco Javier Rodríguez-Sedano, Vicente Matellan and Francisco J. García Peñalvo.*
- 18.30 – 18.45** Phogo: A low cost, engaging and modern proposal to learn how to program. *Carlos Gonzalez-Sacristan, Carlos Garcia-Saura and Pablo Molins-Ruano*
- 18.45 – 19.00** Relationship of knowledge to learn in programming methodology and evaluation of computational thinking. *Arturo Rojas and Francisco J. García-Peñalvo*
- 19.00 – 19.15** Student2student: Arduino Project-based Learning. *Pablo Martin-Ramos, Maria João Lopes, M. Margarida Lima Da Silva and Manuela Ramos Silva*
- 19.15 – 19.30** Improving computational skills and curriculum of Vocational Training students. Case Study: Technological Behaviour of pharmacy students in a Digital Marketing Course. *Xavier Canaleta, David Fonseca, August Climent and Lluís Vicent*
- 19.30 – 19.45** What is the question? Impact of question length and illustration support on the success and skip rates of pre-university mock online tests. *Ernest Redondo, Joaquim Regot, David Fonseca, Francesc Valls and Lluís Giménez*



TRACK 11. GAMIFICATION ECOSYSTEMS

Wednesday, 2nd November

Room 13A (IUCE)

Presentation: Gamification Ecosystems. *Miroslav Minovic, milos Milovanovic and Francisco Gallego*

- 16.00 – 16.15** Gamifying Research Activity Support System. Shigeki Ohira, Saya Sugiura and Katashi Nagao.
- 16.15 – 16.30** Assessing Engagement in an Emotionally-Adaptive Applied Game. *Boyan Bontchev and Dessislava Vassileva*
- 16.30 – 16.45** Designing game-like activities to engage adult learners in higher education. *Alberto Mora, Elena Planas and Joan Arnedo-Moreno*
- 16.45 – 17.00** Design Patterns for Gamification of Work. *Jakub Swacha and Karolina Muszyńska*
- 17.00 – 17.15** Challenge-based gamification and its impact in teaching mathematical modeling. *Elvira G Rincón Flores, María Soledad Ramírez Montoya and Juanjo Mena*
- 17.15 – 17.30** Perceived Risks in Social Media Use – A Longitudinal Study Among University Students. *Heli Aramo-Immonen, Jari J. Jussila, Ilona Ilvonen and Nina Helander*

TRACK 6. LIFELONG EDUCATION

Wednesday, 2nd November

Room 13A (IUCE)

Presentation: LifeLong Education. *Ricardo Pocinho, Pedro Belo and Eva Sánchez.*

- 18.00 – 18.15** OPALESCE – Online Portal and Active Learning System for Senior Citizens in Europe.. *Giselle Janeiro, Luis Jacob and Maria José Rodríguez Conde*
- 18.15 – 18.30** Open Assessment Resources recommendation for competence assessment. *Ameni Khacheb and Lilia Cheniti Belcadhi*
- 18.30 – 18.45** Cultural Equipments as Elements for Knowledge Creation: Analysis of ‘Ley de la Ciencia, La Tecnología y La Innovación’ of Spain. *Elaine Da Silva, Marta Lúcia Pomim Valentim and Marta de La Mano*
- 18.45 – 19.00** Study of the Perception of Active Workers in Preparation for Retirement: Analysis of the Effect of the Education for Retirement in Psychological Well-being. *Ricardo Pocinho, Esperanza Navarro Pardo, Juan José Fernández Muñoz and Pedro Belo*
- 19.00 – 19.15** Happiness in advanced adulthood and the elderly: the role of positive emotions, flourishing and mindfulness as well-being factors for successful aging. *Cristina Cruz, Esperanza Navarro Pardo, Ricardo Pocinho and António Ferreira*
- 19.15 – 19.30** Tourism Education in Spain: analysis and proposals from public and private sector. *Clara Martín, Diana Gómez, Marta Plumed and Juan José Fernández*
- 19.30 – 19.45** Analysis of the Impact of Leisure on Well-being and Distress in Ageing. *Pedro Belo, Ricardo Pocinho, Esperanza Navarro and Joana Costa*



THURSDAY, 3rd NOVEMBER 2016

- 9.00 – 14.00 **Registration. Help Desk.**
16.00 – 19.00 *Location: GRIAL Office (IUCE)*
- 11.00 – 11.30 Coffee break
Location: IUCE
- 09.00 – 14.00 Sessions: Track 2, 4, 5, 7, 16 and Workshop
- 14.00 – 16.00 Lunch
- 16.00 – 20.00 Sessions: Track 3, 15, 16 and Workshop
- 21.30 Gala dinner
Location: La Hoja 21 (C/ San Pablo, 21)

TRACK 2. ENGINEERING AND TECHNOLOGICAL LEARNING IN EDUCATIONAL AND PROFESSIONAL CONTEXTS

Thursday, 3rd November
Room 12A (IUCE)

Presentation: Engineering and technological learning in educational and professional contexts. *Clara Viegas, Maria Marques and Gustavo Alves.*

- 9.00 – 9.15 Design of Sustainable Domes in the Context of EPS@ISEP. *Akos Serfozo, Arne Speckstadt, Bogdan Marius Barb, Gergely Rajnai, Jaehyun Park, Jairo Pérez Daza, Joppe Balbaert, Klaudia Skonieczna, Marine Cazelles, Ramon Marimon Farran, Stancel Constantin Domenic, Abel Duarte, Benedita Malheiro, Cristina Ribeiro, Fernando Ferreira, Manuel Silva, Paulo Ferreira and Pedro Guedes.*
- 9.15 – 9.30 Students' expectations analysis before and after a curricular internship. *Isabel Pereira, Paulo Silva, M. Teresa Sena Esteves, Margarida M. Ribeiro, Anabela Guedes, Celina Leão and Filomena Soares.*
- 9.30 – 9.45 Academic performance correlation with the qualification of Final Projects in Civil Engineering Degrees. *Francisco Cambronero, Jesús Mínguez and Roberto Serrano*
- 9.45 – 10.00 Learning software project management in teams with diverse backgrounds. *Terje Samuelsen, Ricardo Colomo-Palacios and Monica Kristiansen.*



TRACK 7. ON TECHNOLOGICAL CHANGE: CHALLENGES AND OPPORTUNITIES FOR IMPROVING LIVES, SOCIETY AND SUSTAINABLE DEVELOPMENT

Thursday, 3rd November
Room 12A (IUCE)

Presentation: On Technological Change: Challenges and Opportunities for improving Lives, Society and Sustainable Development. *Marc Alíer Forment, Enric Mayol and María José Casany Guerrero.*

- 10.15 – 10.30** Virtual Reality and its uses - a systematic literature review. *Kristina Berntsen, Ricardo Colomo-Palacios and Eduardo Herranz.*
- 10.30 – 10.45** Internet technologies as a tool in indigenous education: the case of the Wichi People in “The Impenetrable” area in Argentina. *Evaristo Ovide and Francisco José García Peñalvo.*
- 10.45 – 11.00** Civic Innovation as a Response to Social Problems. The case of Civic and Public Challenges in Mexico. *Martin Adalberto Tena Espinoza de Los Monteros.*

TRACK 4. NEW PUBLISHING AND SCIENTIFIC COMMUNICATION WAYS: ELECTRONIC EDITION, DIGITAL EDUCATIONAL RESOURCES

Thursday, 3rd November
Room 12A (IUCE)

Presentation: New publishing and scientific communication ways: electronic edition, digital educational resources. *José Antonio Cordón-García, Raquel Gómez-Díaz, Araceli García-Rodríguez and María Manuel Borges.*

- 11.30 – 11.45** Electronic Scientific Journals at the University of Salamanca: perception and use. *Javier Merchán Sánchez-Jara, Sofia Pelosi, Almudena Mangas Vega, Taísa Dantas, Raquel Gómez Díaz, Araceli García Rodríguez and José Antonio Cordón García*
- 11.45 – 12.00** Ebooks and Electronic Devices at the University of Salamanca: perception and use. *Taísa Rodrigues Dantas, Almudena Mangas Vega, Javier Merchán Sánchez-Jara, Sofia Pelosi, Raquel Gómez Díaz, Araceli García Rodríguez and José Antonio Cordón García*
- 12.00 – 12.15** Digital habits and competences of health professionals the Health Area East of Málaga–Axarquía (Málaga). *Antonia María Fernandez-Luque, Gómez Díaz Raquel and Jose Antonio Cordón-García*
- 12.15 – 12.30** Evaluation of educational websites to support Primary and High School in Portugal. *Ana M. Santos*
- 12.30 – 12.45** Understanding User Behavior in Textual Analysis: A Thinking Aloud Approach for Digital Humanities Research Contexts. *Patricia Martín-Rodilla and Cesar Gonzalez-Perez*



- 12.45 – 13.00 Digital Curation and Costs: Approaches and Perceptions. *Luís Corujo, Carlos Guardado Da Silva and Jorge Revez*
- 13.00 – 13.15 Fundamental concepts in digital preservation. *Laerte Silva Júnior and Maria Manuel Borges*
- 13.15 – 13.30 The Sistematic Review of Literature in LIS: an approach. *Tránsito Ferreras-Fernández, Helena Martín-Rodero, Francisco J. García-Peñalvo and José A. Merlo-Vega*
- 13.30 – 13.45 Discovery Tools for Open Acces Repository Literature Mappin. *Laura Icela González Pérez, Francisco J. García-Peñalvo y María Soledad Ramírez Montolla*

TRACK 5. LEARNING ANALYTICS: NEEDS AND OPPORTUNITIES

Thursday, 3rd November
Room 17A (IUCE)

SESSION 1

- 9.00 – 9.15 Presentation: Learning analytics: Needs and opportunities. *Ángel Hernández-García and Miguel Ángel Conde.*
- 9.15 – 9.30 SNOLA: Spanish Network of Learning Analytics. *Manuel Caeiro-Rodríguez, Miguel Ángel Conde, Mariluz Guenaga, Ángel Hernández-García, Mikel Larrañaga, Alejandra Martínez-Monés, Pedro J. Muñoz-Merino, Rafael Pastor-Vargas, Asier Perallos-Ruiz and María-José Rodríguez-Conde.*
- 9.30 – 9.45 Is interpersonal participation relevant to pass? *Sheila Lucero Sánchez López, Rebeca P. Díaz Redondo and Ana Fernández Vilas*
- 9.45 – 10.00 A Learning Analytics tool with hybrid graphical and textual interpretation generation. *Daniel Amo, Marc Alier Forment, María José Casany Guerrero and Enric Mayol*
- 10.00 -10.15 Relationship between learning indicators in the development and result of the Building Engineering Degree Final Project. *Enric Peña, David Fonseca and Nuria Martí*
- 10.15 – 10.30 Performance measures for peer assessment. *Rafael Molina-Carmona, Rosana Satorre-Cuerda, Patricia Compañ-Rosique and Faraón Llorens-Largo*
- 10.30 – 10.45 Machine learning insights on the learning Process. *Laura Fernández-Robles, Hector Alaiz-Moretón, Javier Alfonso-Cendón, Manuel Castejón and Luis Panizo-Alonso*
- 10.45 – 11.00 Approximation of Statistical Implicative Analysis to Learning Analytics: A systematic review. *Rubén Pazmiño, Miguel Ángel Conde and Francisco José García Peñalvo*
- 11.00 – 11.30 **Coffee break**

SESSION 2

- 11.30 – 11.45 RubricVis: Enriching Rubric-Based Formative Assessment with Visual Learning Analytics. *Mikel Villamañe, Mikel Larrañaga, Ainhoa Alvarez and Begoña Ferrero*



- 11.45 – 12.00** Using Learning Analytics to assess project management skills on engineering degree courses. *Iratxe Menchaca, Mariluz Guenaga and Josu Solabarrieta*
- 12.00 – 12.15** Learning analytics to identify the influence of leadership on the academic performance of work teams. *Fidalgo Ángel, María Luisa Sein-Echaluze, Javier Esteban Escaño, Francisco José García Peñalvo and Miguel Ángel Conde.*

WORKSHOP: INTERNATIONAL LEARNING ANALYTICS NETWORKS AND PROJECTS

Workshop Scheduled for: 12.15 – 14.00 H

Thursday, 3rd November

Room 13A (IUCE)

WORKSHOP: SHARING EXPERIENCES IN THEMATIC RESEARCH NETWORKS OF EXCELLENCE

Workshop Scheduled for: 16.00 – 17.30 H

Thursday, 3rd November

Room 13A (IUCE)

TRACK 15. COMMUNICATION, EDUCATION AND HEALTH PROMOTION

Thursday, 3rd November

Room 13A (IUCE)

Presentation: Communication, education and health promotion. *Juan José Igartúa.*

- 18.00 – 18.20** The concept of health and the evaluation of Internet as a health information search tool of the youth of the Basque Country and Navarra. *Milagros Ronco, Lázaro Echeagaray and Carmen Peñafiel.*
- 18.20 – 18.40** Portrayal of diseases in medical tv fiction: the case of 'hospital central' (telecinco, 2000-2012). *Beatriz González de Garay, Francisco Javier Frutos Esteban, Marta Cerezo Prieto and Irene Del Arco Bóveda*
- 18.40 – 19.00** Narrative Persuasion and Gender Violence. *Juan José Igartua and Daniela Fiuza*
- 19.00 – 19.20** Development and Validation of a Digital Literacy Scale for Teenagers. *Isabel Rodríguez-De-Dios, Juan-José Igartua and Alejandro González-Vázquez.*
- 19.20 – 19.40** Attitudes & Effect of Vocational School Students' Classroom Smartphone Use in the Spanish Castilla-Leon Region. *Lifen Cheng and Alejandro López Iglesias.*



TRACK 3. EVALUATION IN EDUCATION AND GUIDANCE

Thursday, 3rd November
Room 17A (IUCE)

Presentation: Evaluation in education and guidance. *María José Rodríguez Conde, Susana Olmos Migueláñez and Susana Nieto Isidro*

- 16.00 – 16.10** Determining factors in acceptance of ICT by university faculty in their teaching practice. *Gustavo Homero Orozco Cazco, Marcos Cabezas González, Fernando Martínez Abad, Jorge Edwin Delgado Altamirano and María Eugenia Solís Mazón.*
- 16.10 – 16.20** Digital competence of the university faculty: case study of the Universidad Nacional de Chimborazo. *Gustavo Homero Orozco Cazco, Marcos Cabezas González, Fernando Martínez Abad and Martin Alonso Mercado Varela.*
- 16.20 – 16.30** A proposal to measure the quality of virtual teaching. *Ana María Fernández-Pampillón Cesteros and Antonio Sarasa Cabezuelo.*
- 16.30 – 16.40** Psychometric testing for HEODAR tool. *Claudia Orozco and Erla Morales.*
- 16.40 – 16.50** Coordination in the Formation of the Transversal Skills Needed for University-level Assignments and Support Tools for Their Assessment. *M^a Dolores Cepero, Francisco Javier García-Ramos and Pablo Martin-Ramos*
- 16.50 – 17.00** Analysis of the use and design of rubrics in competency assessment in engineering degrees. *Leticia-Concepción Velasco-Martínez and Juan-Carlos Tójar-Hurtado.*
- 17.00 – 17.10** Integrating Generic Competences in an Engineering Degree Curriculum: the Students' Point of View. *Carmen García Berdonés, Francisco David Trujillo Aguilera and Juan Carlos Tojar Hurtado*
- 17.10 – 17.20** Monitoring and Information on Skills Development at University: A Multiple-case Study. *María Soledad Ibarra-Sáiz, Gregorio Rodríguez-Gómez and Susana Olmos Migueláñez.*
- 17.20 – 17.30** Assessing the development of student generic competences in education-related university degrees. *Susana Olmos-Migueláñez, Adriana Gamazo, Eva María Torrecilla-Sánchez and José Carlos Sánchez-Prieto..*
- 17.30 – 18.00** **Coffee break**
- 18.00 – 18.10** Educational coaching as a methodological strategy for the career development in 4th grade of Secondary Education. Orienta-te: a multidisciplinary approach. *Joaquín-Lorenzo Burguera, María-Del-Henar Pérez-Herrero and Marta Virgós-Sánchez.*
- 18.10 – 18.20** Assessment of Pre-Primary Education Pre-Service Teachers Dispositional Resistance to Change Using RCS. *José Carlos Sánchez Prieto, Susana Olmos-Migueláñez and Francisco José García-Peñalvo.*



- 18.20 – 18.30** Training for the employment of women heads of lone parent families: Adaptation of the European program Restart 3 to the Spanish situation. *Susana Menéndez Amado, Raquel Muñoz Casado and Fernando Lezcano Barbero*
- 18.30 – 18.40** Assessment, training and innovation in basic competencies in compulsory education: progress of a research team in Spain. *María José Rodríguez Conde, M. Esperanza Herrera-García, Susana Olmos-Migueláñez, Fernando Martínez-Abad, Eva María Torrecilla, Juan Pablo Hernández-Ramos, Patricia Torrijos, Antonio M. Seoane and Adriana Gamazo*
- 18.40 – 20.00** Discussion

TRACK 16. DOCTORAL CONSORTIUM

Thursday, 3rd November
Room 16A (IUCE)

Presentation: Doctoral Consortium. *Francisco J. García-Peñalvo and María-Soledad Ramírez-Montoya*

Information Society and Education

- 9.00 – 9.10** National Repository of Academic, Scientific, Technological and Innovation Information (CTI.MX)/México. An Analysis on the Beta Version Implementation. *Martin Adalberto Tena Espinoza de Los Monteros and José A. Merlo-Vega*
- 9.10 – 9.20** Creating quality standards for scientific content in digital environments through the development of a utility model. *Almudena Mangas-Vega, José Antonio Cordón-García and Raquel Gómez-Díaz.*
- 9.20 – 9.30** Digital habits and competences of health professionals in the health area of Málaga-Axarquía. *Antonia María Fernandez-Luque, Jose Antonio Cordón-García and Raquel Gómez-Díaz*
- 9.30 – 9.40** The social reader and prospects for development of reading on digital platforms from the experiments of the Germán Sánchez Ruipérez Foundation. *Taisa Dantas.*
- 9.40 – 9.50** Open access to educational resources in energy and sustainability: Usability evaluation prototype for repositories. *Laura Icela González Pérez, María Soledad Ramírez-Montoya and Francisco J. García-Peñalvo.*

Interaction and eLearning

- 9.50 – 10.00** Designing a model to estimate the impact and cost effectiveness of online learning platforms. *Doris Meza-Bolaños, Patricia Compañ-Rosique and Rosana Satorre-Cuerda.*
- 10.00 – 10.10** Personal social network as a facilitating tool for collaborative knowledge construction. *Dunia Inés Jara-Roa, María-Soledad Ramírez-Montoya and Marcos Cabezas González.*
- 10.10 – 10.20** Websites of learning support in Primary and High School in Portugal: a performance and usability study. *Jose A. Cordón García, Gómez Díaz Raquel and Ana M. Santos.*

Computers in Education

- 10.20 – 10.30** Challenge-based gamification as a teaching' Open Educational Innovation strategy in the energy sustainability area. *Elvira G Rincón Flores, María Soledad Ramírez and Juanjo Mena.*



- 10.30 – 10.40** Transmedia discourse: from social reality to the construction of knowledge in the classroom. *Azucena Hernández Martín and Víctor Manuel Pérez Martínez.*
- 10.40 – 10.50** Open innovation laboratories for social modeling sustainable society sensitive to social needs. *José Antonio Yañez-Figueroa, María Soledad Ramírez-Montoya and Francisco J. García-Peñalvo.*
- 10.50 – 11.00** Personalized contents based in cognitive level of student's computational thinking for learning basic competencies of programming using an environment b-learning. *Arturo Rojas and Francisco J. García-Peñalvo*

11.00 – 11.30 Coffee break

- 11.30 – 11.40** Video games in teacher training: design, implementation and assessment of an educational proposal. *Marta Martín Del Pozo, Ana García-Valcárcel Muñoz-Repiso and Azucena Hernández Martín.*
- 11.40 – 11.50** A technology-based approach to revitalise indigenous languages and cultures in online environments. *Evaristo Ovide and Francisco José García Peñalvo.*

Education Assessment and Orientation

- 11.50 – 12.00** Evaluation of the integration of a web application for foreign language learning in vulnerable rural schools in Colombia. *Geovanny Alexander Abaunza and María José Rodríguez Conde.*
- 12.00 – 12.10** Multilevel models for the assessment of school effectiveness using PISA scores. *Adriana Gamazo, Susana Olmos-Migueláñez and Fernando Martínez-Abad.*
- 12.10 – 12.20** Mediation practices for learning in MOOC courses to promote open innovation. *Gioconda Riofrío-Calderón, María-Soledad Ramírez-Montoya and María-José Rodríguez-Conde*
- 12.20 – 12.30** Model for Quality Evaluation and Improvement of Higher Distance Education based on Information Technology. *Rafael Molina-Carmona and Gina Susana Mejia Madrid.*
- 12.30 – 12.40** The construction of teaching practical knowledge in teachers training within the practicum. *Raquel Gómez, Juanjo Mena and M^a Luisa García*
- 12.40 – 12.50** Open innovation and social construction through MOOCs of energy sustainability: contributions from theoretical foundation. *Ruth-Elizabeth Minga-Vallejo, María-Soledad Ramírez-Montoya and María-José Rodríguez-Conde.*

Communication Media and Education

- 12.50 – 13.00** Risks of interactive communication in teenagers. Digital literacy diagnosis and intervention. *Isabel Rodríguez-De-Dios and Juan-José Igartua.*
- 13.00 – 13.10** The Narrative and Media Literacy as influential factors in the efficacy of programs for the prevention of teenage pregnancy. *Catalina González-Cabrera and Juan José Igartua.*
- 13.10 – 13.20** Impact of the narrative formats on the behavior improvement in relation to the socially stigmatized groups: the effect of empathy and similarity in terms of social identity. *Diego Cachón and Juan José Igartua.*



Medicine and Education

- 13.20 – 13.30** Artificial Neural Networks applications in Computer Aided Diagnosis. System design and use as an educational tool. *Jorge Hernández Rodríguez, María José Rodríguez Conde and Francisco Javier Cabrero Fraile.*

Engineering and Education

- 13.30 – 13.40** Proposal of a Framework of IT Governance for Public Universities in Ecuador. *Faraón Llorens-Largo and Francisco Xavier Valverde Alulema.*
- 13.40 – 13.50** Learning from complementary ways of developing experimental competences. *Natércia Lima, Clara Viegas and Francisco José García Peñalvo.*
- 13.50 – 14.00** Learning ecosystems for knowledge management in educational institutions. *Alicia García Holgado and Francisco José García Peñalvo.*

Thursday, 3rd November
Room 12A (IUCE)

- 16.00 – 17.30** Discussion Panel

- 17.30 – 18.00** **Coffee Break**

- 18.00 – 19.30** Discussion Panel



FRIDAY, 4th NOVEMBER 2016

9.00 – 13.30 Registration. Help Desk.

Location: GRIAL Office (IUCE)

10.45 – 11.15 Coffee break

Location: IUCE

9.30 – 13.30 Sessions: Track 8, 9 and 14.

13.30 – 14.00 Closing Ceremony

Location: Room 16A (IUCE)

TRACK 8. LATEST TECHNOLOGY TRENDS IN HEALTH SCIENCES EDUCATION

Friday, 4th November

Room 12A (IUCE)

Presentation: Latest technology trends in health sciences education. *Juan Antonio Juanes and Pablo Ruisoto*

10.05 – 10.15 Exploring Mobile Learning Apps for medical students and health care professionals. *Laura Briz, Juan Antonio Juanes-Méndez and Francisco José García-Peñalvo*

10.15 – 10.25 4D Visual Environment on Mobile devices for learning in the Human Anatomy Field. *Juan A Juanes, Pablo Ruisoto, Laura Briz Ponce and Maria José Sánchez Ledesma*

10.25 – 10.35 Immersive Visualization Anatomical Environment using Virtual Reality Devices. *Juan Antonio Juanes Méndez, Pablo Ruisoto and Laura Briz Ponce*

10.35 – 10.45 Virtual Reality Medical Training System. *Santiago Gonzalez Izard and Juan Antonio Juanes Mendez*

10.45 – 11.15 Coffee break

11.15 – 11.25 Creating interactive 3D models of the skull base for learning anatomy. *Roberto-Domingo Tabernero-Rico, Juan A. Juanes and Alberto Prats-Galino*

11.25 – 11.35 3D Reconstructions of Brain Ventricles Using Anaglyph Images. *Miguel Gonzalo Domínguez, Maria Cristina Hernández Rodríguez, Pablo Ruisoto, Juan Antonio Juanes, Jose Martín Marín Balbín and Alberto Prats*

11.35 – 11.45 Scope of the uses of Information and Communication Technologies by occupational medicals involved in pain treatment. *Jorge Muriel Fernández, M José Sánchez Ledesma, J Manuel López-Millán, Juan A Juanes Méndez and M Begoña García-Cenador*



- 11.45 – 11.55** Designing a tool for assessment of ICT use by medical professionals and medical activity. *Jorge Muriel Fernández, M Begoña García-Cenador, M José Sánchez Ledesma, J Manuel López-Millán and Clemente Muriel Villoria*
- 12.05 – 12.15** Use of bioimpedanciometer as predictor of mountain marathon performance. *Vicente Javier Clemente-Suárez and Pantelis Theodoros Nikolaidis*
- 12.15 – 12.25** Use of biotechnology devices to analyse fatigue process in swimming training. *Vicente Javier Clemente-Suárez and Juan Jaime Arroyo Toledo*
- 12.25 – 12.35** Computer Aided Detection and Diagnosis in medical imaging: a review of clinical and educational applications. *Jorge Hernández Rodríguez, Francisco Javier Cabrero Fraile, María José Rodríguez Conde and Pablo Luis Gómez Llorente*
- 12.35 – 12.45** Heuristic evaluation of SocialNet, the private social network for psychiatric patients and their relatives. *José Miguel Toribio-Guzmán, Alicia García-Holgado, Felipe Soto Pérez, Francisco José García Peñalvo and Manuel Franco Martín*
- 12.45 – 12.55** Processesing and additive manufacturing of bones for the teaching of human anatomy. *Maria Teresa Ugidos Lozano, Juan Antonio Juanes Mendez, Carlos Molino Diaz, Sadia Manzoor, Gonzalo Ferrer Ugidos and Fernando Blaya Haro*
- 12.55 – 13.30** Final Discussion

TRACK 9. A WORLD OF DIGITAL COMPETENCES: MOBILE APPS, E-CITIZENSHIP AND COMPUTATIONAL SYSTEMS AS LEARNING TOOLS

Friday, 4th November
Room 16A (IUCE)

Presentation: A world of digital competences: mobile apps, e-citizenship and computacional systems as learning tools. *Ana Iglesias-Rodríguez and Blanca García-Riaza.*

- 9.10 – 9.20** A case study of Mobile Learning in a Strength of Materials course. *Luis Celorrio Barragué.*
- 9.20 – 9.30** ne-Course for Learning Programming. *José Figueiredo, Natália Gomes and Francisco José Garcia-Peñalvo.*
- 9.30 – 9.40** Uses of accelerometer sensor and its application in m-Learning environments: a review of literatura. *Jose Angel Trujillo Padilla and Carina Soledad González González.*
- 9.40 – 9.50** Testing Physics Laws with Smartphones. *Manuela Ramos Silva, Pablo Martin-Ramos and Pedro S. Pereira Da Silva.*
- 9.50 – 10.00** A Collaborative Mobile Learning System to Facilitate Foreign Language Learning and Assessment Processes. *Manuel Palomo-Duarte, Anke Berns, José-Luis Isla-Montes, Juan Manuel Dodero and Owayss Kabtoul.*
- 10.00 – 10.10** Developing a MOOC for the learning of mobile app design. The AppSkil Project. *Jose Manuel Pastor Benlloch, Laura Uxera Cotano and Jose Luis Soler Domínguez.*
- 10.10 – 10.20** Single Mobile Apps to tune online Radio in Spain: iRadioPlay Project. *Luis Miguel Pedrero Esteban and Alberto Pedrero Esteban.*



- 10.20 – 10.30 Motivations to read and learn in videogame lore: the case of League of Legends. *Marçal Mora Cantallops and Miguel-Angel Sicilia.*
- 10.30 – 10.45 Discussion
- 10.45 – 11.15 **Coffee break**
- 11.15 - 11.25 Augmented Reality and Pedestrian Navigation through of mobile implementation on heritage content. *Jorge Joo, José Rafael García-Bermejo and Fernando Martínez-Abad.*
- 11.25 – 11.35 Augmented reality sandbox: a platform for educative experiences. *Sergio Álvarez Sánchez, Laura Delgado Martín, Miguel Angel Gimeno-González, Teresa Martín-García, Fernando Almaraz-Menéndez and Camilo Ruiz.*
- 11.35 - 11.45 The construction of identity of young people in an interconnected society. *Inés Ruiz Requies, Eduardo Fernandez Rodríguez, Jose Miguel Gutiérrez Pequeño and Rocío Anguita Martínez.*
- 11.45 – 11.55 Design and validation of an instrument to evaluate educational apps and creation of a digital repository. *Amaya Jareño, Erla Morales-Morgado and Fernando Martínez.*
- 11.55 – 12.05 Digital competence in use: From DigComp 1 to DigComp 2. *Ana Pérez- Escoda and Nieves González Fernández-Villavicencio.*
- 12.05 – 12.15 Media Literacy for an Inclusive Knowledge Society: International Indicators. *Ana Pérez, Ana Castro-Zubizarreta, Rosa García-Ruiz and Ignacio Aguaded.*
- 12.15 – 12.25 Nurturing digital citizenship: Teachers and Students Facing Digital Competences. *Ana Pérez-Escoda, Ana Iglesias-Rodríguez and M^a Cruz Sánchez-Gómez.*
- 12.25 – 12.35 Mobile devices as learning tools: present and prospective use by future professionals of education. *Blanca García-Riaza and Ana Iglesias-Rodríguez.*
- 12.35 – 12.45 Methodological triangulation as a research strategy in educational innovation processes: case study of the b-learning methodology in the university context. *M^a Cruz Sánchez-Gómez, Ana Iglesias-Rodríguez and Antonio Víctor Martín-García.*
- 12.45 – 13.30 Discussion

TRACK 14. 7TH INTERNATIONAL WORKSHOP ON SOFTWARE ENGINEERING FOR E-LEARNING (ISELEAR'16)

Friday, 4st November
Room 17A (IUCE)

Presentation: 7th International Workshop On Software Engineering For E-Learning (ISELEAR'16) *Miguel Angel Conde, Antonio Sarasa and José Luis Sierra.*

- 11.15 – 11.35 Applying CIAM Mobile Methodology: A Case Study for Smartphones. *Yoel Arroyo, Christian Navarro, Miguel Redondo and Ana Isabel Molina Díaz.*
- 11.35 – 11.55 Design of an annotation tool for educational resources. *Felix Buendia*



- 11.55 – 12.15** HCore: A game engine independent OO architecture for fast development of haptic simulators for teaching/Learning. *Javier de Pedro, Gonzalo Esteban, Miguel A. Conde and Camino Fernández.*
- 12.15 – 12.35** Analysis of Pervasive Games Based Learning Systems Requirements Using Game Theory. *Yemna Mejri, Maha Khemaja and Kaouther Raies.*
- 12.35 – 12.55** MDD Inclusion of Navigational, Structural and RBAC Elements for JSF and ASP.NET MVC Frameworks in UML Models. *Humberto Cortes and Antonio Navarro*
- 12.55 – 13.15** Domain Driven Design and Provision of Micro-services to build Emerging Learning Systems. *Khemaja Maha.*
- 13.15 – 13.35** A Development Environment to Customize Assessment through Students Interaction with Multimodal Applications. *Antonio Balderas, Iván Ruiz-Rube, José Miguel Mota-Macías, Juan Manuel Dodero and Manuel Palomo-Duarte*





SALAMANCA

Eat...



- | | | | |
|---|---|---|--|
| 1 Cafetería Facultad de Educación
Paseo de Canalejas, 169
37008 Salamanca | 4 El Alquimista
Plaza de San Cristóbal, 6
37001 Salamanca
Phone: +34 923 21 54 93
elalquimistarestaurante.es | 7 Hotel San Polo
Arroyo de Santo Domingo, 2
37008 Salamanca
Phone: +34 923 21 11 77 | 10 Hits Café
Calle Banzo, 6
37001 Salamanca
Phone: +34 923 61 61 79 |
| 2 Café Bar El Trastero
Rosario, 30
37001 Salamanca
Phone: +34 923 26 90 27 | 5 Con Pan Y Vino
Calle Jardines, 12
37001 Salamanca | 8 Restaurante Mencía
Calle Grillo, 11
37001 Salamanca
Phone: +34 923 21 37 18 | 11 269 Gastro Vegan
Calle Condes de
Crespo Rascón, 11
37002 Salamanca
Phone: +34 923 01 12 69 |
| 3 Bar restaurante VinoDiario
Plaza Basilio, 1
37001 Salamanca
Phone: +34 923 61 49 25 | 6 Tapas 2.0 Gastrotasca
Calle Felipe Espino, 10,
37002 Salamanca
Phone: +34 679 79 10 57 | 9 Bar La Viga
Calle del Consuelo, 16
37001 Salamanca
Phone: +34 923 21 09 04 | |

Sleep...



1 Hotel Palacio San Esteban *****
Arroyo de Santo Domingo, 3
37008, Salamanca
Phone: +34 923 26 22 96

2 Hotel Alameda Palace *****
Paseo de la Estación, s/n
37004, Salamanca
Phone: +34 923 28 26 26

3 Eurostars Las Claras *****
Marquesa de Almarza s/n
37001, Salamanca
Phone: +34 923 12 85 00

4 NH Salamanca Palacio Castellanos *****
San Pablo, 58-64
37008, Salamanca
Phone: +34 923 26 18 18
Reservations: 902 091 857

5 Hotel EXE Salamanca *****
Calle Álava, 8
37001, Salamanca
Phone: +34 923 26 11 11

6 Estrella Albatros *****
Calle Grillo, 18
37001, Salamanca.
Phone: +34 923 26 60 33

7 Hotel San Polo ***
Arroyo de Santo Domingo, 2
37008, Salamanca
Phone: +34 923 21 11 77

8 Hotel Ibis Salamanca **
Calle de la Marina, 15
37001, Salamanca
Phone: +34 923 27 23 80

Locations...



1 Instituto Universitario de
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(IUCE)
University of Salamanca
Paseo de Canalejas, 169
37008 Salamanca, Spain
Phone: (+34) 923294500
(ext. 3433)
Email: grial@usal.es

2 La Hoja 21
Calle San Pablo, 21
37008. Salamanca

Interest point...



1 Train Station (Vialia)
Paseo de la Estación s/n
37004 Salamanca, Spain
Phone: (+34) 902432343
(+34) 902320320

2 Bus Station
Avd. Filiberto Villalobos, 71
37007 Salamanca, Spain
Phone: (+34) 923 23 67 17

3 Instituto Universitario de
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