



TEEM'18

24-26 October 2018

Salamanca Spain

teemconference.eu

Programme

24-26 October 2018 in Salamanca

Location:

Instituto Universitario de Ciencias de la Educación (IUCE)

University of Salamanca

Faculty of Education

Paseo Canalejas, 169

37008 Salamanca, Spain

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Wednesday, 24th October 2018

- 9.00 – 13.00 Registration. Help Desk.
16.00 – 19.30 *Location: GRIAL Office (IUCE)*
- 9.00 – 14.00 Sessions: Track 4, 12, 13
Location: IUCE
- 9.00 – 11.30 Workshop: Improving Financial culture through a Banking platform
Location: Room 13
- 11.30 – 12.00 Coffee break
Location: IUCE
- 12.30 – 13.30 TEEM 2018 Conference Opening Session
Location: Assembly Hall. Faculty of Education.
- 13.00 – 16.00 Lunch
- 16.00 – 20.00 Sessions: Track 7, 11, 12, 16
Location: IUCE
- 17.30 – 18.00 Coffee break
- 21.00 Wednesday Gala Dinner (confirmation needed)
Location: La Hoja 21 (C/ San Pablo, 21)



Track 12. Educational Innovation

Wednesday, 24th October
Room 12A, IUCE

Presentation "Track 12. Educational Innovation"

- 9.00 – 9.10 Kahoot, win the learning race. *Vanessa Izquierdo Alvarez, Eva Lahuerta Otero and Rebeca Cordero Gutiérrez.*
- 9.10 – 9.20 MAIN: Method for Applying Innovation in education. *María Luisa Sein-Echaluze, Ángel Fidalgo and Francisco José García Peñalvo.*
- 9.20 – 9.30 Qualitative assessment of urban virtual interactive environments for educational proposals. *Xavier Calvo, Mónica Sánchez-Sepúlveda, David Fonseca, Nick Van der Graaf, Miquel Sans, Marc Gené, Isidro Navarro, Sergi Villagrasa and Ernesto Redondo*
- 9.30 – 9.40 Classroom adaptations for blended learning practices. *Thaís Sarmento, Alex Gomes and Fernando Moreira.*
- 9.40 – 9.50 The Use of Heterogeneity to Improve the Learning Process of Large Groups of Students. *Luis Fernández-Gutiérrezdelalamo, David Bolonio, Miguel Izquierdo-Díaz, Fernando Barrio-Parra, Luis Felipe Mazadiego and Ángel Fidalgo-Blanco.*
- 9.50 – 10.00 Development of Flipped Classroom model to improve the students' performance. *Anastasio P. Santos, Ricardo Castedo, Covadonga Alarcon, Kyan Dios, María Chiquito, Isabel España and Lina M. López.*
- 10.00 – 10.10 Teaching FEM software in formal and non-formal environment with MOOCs. *Ricardo Castedo, Anastasio P. Santos, Lina M. López, María Chiquito and Oriol Borrás-Gené.*
- 10.10 – 10.20 Innovation in Urban Design Education. *Monica Sanchez-Sepulveda, David Fonseca, Xavier Calvo, Isidro Navarro, Jordi Franquesa, Ernesto Redondo and Marc Gené.*
- 10.20 – 10.30 Influence of the didactical design in the perception of knowledge management in MOOC. *Javier Esteban Escaño, Ángel Fidalgo Blanco, María Luisa Sein-Echaluze and Francisco José García Peñalvo.*
- 10.30 – 10.40 Ontological search for academic resources. *Ángel Fidalgo, María Sánchez Canales, María Luisa Sein-Echaluze and Francisco José García Peñalvo.*
- 10.40 – 10.50 Digital tools for the didactics of colour in fine arts studies: remarks on colour. *Carmen González García, Felicidad García-Sánchez, Juan Sebastián González, Víctor del Río García, Alberto Santamaría Fernández and José Gómez-Isla.*
- 10.50 – 11.00 Mediaesthetics as an educational tool in creative writing course. *Marina Zagidullina.*
- 11.00 – 11.10 Audiovisual Annotation in the Study of Physics. *João Marçal, Maria Borges, Paula Viana and Paulo Simeão.*



- 11.10 – 11.20 Superhero's Other Power: Motivate Students with Difficulties. *Laura Sastre Lorenzo, Maria Jesus Santos and M. Martín Mata.*
- 11.20 – 11.30 Gamification for formative assessment in the framework of engineering Learning. *Teresa Parra, José Molina, Gerard Casanova and Lucila-Paola Maiorano-Lauria.*
- 11.30 – 12.00 Coffee break
- 12.00 – 13.00 TEEM 2018 Conference Opening Session
- 13.00 – 16.00 Lunch
- 16.00 – 16.10 Authoring of educational mobile apps for the mathematics-learning analysis. *Tatiana Person Montero, José Miguel Mota Macias, Maria Del Carmen Listán, Iván Ruiz-Rube, Juan Manuel Dodero, Fernando Rambla Barreno, Concepción Muriel Patino, Adrián Ruiz Serván and Juan Manuel Vidal Pérez.*
- 16.10 – 16.20 Innovation in the university: virtual educational platform. *Susana Cadena, Gisela Torres, Jorge Ortiz Herrera and Gina Mejia.*
- 16.20 – 16.30 Increasing students' motivation by using virtual learning environments based on gamification mechanics. *Olena Pastushenko, Tomáš Hruška and Jaroslav Zendulka.*
- 16.30 – 16.40 Flipping the classroom with multimedia resources to regulate learning pace: a case study. *Luciana Oliveira.*
- 16.40 – 16.50 Digital skills training in Higher Education: insights about the perceptions of different stakeholders. *Miguel-Angel Sicilia, Elena Garcia-Barriocanal and Salvador Sanchez-Alonso.*
- 16.50 – 17.00 Using flipped classroom at University to improve the chemistry learning. *María Del Mar López Guerrero, Gema López Guerrero and Juan Carlos García Mesa.*
- 17.00 – 17.10 MOOC on the correct use of the intellectual property in academic environments. *María Luisa Sein-Echaluze, Ángel Fidalgo Blanco, Clara Ubieto Artur, Isabel Ubieto Artur, Lola Hernández Ara, Pedro Bueso Guillén and Concepción Bueno García.*
- 17.10 – 17.20 Teacher perceptions of coexistence in Mexican schools. An analysis of the internal structure of national instrument (ECEA-MS). *Alicia A. Chaparro, Adriana Gamazo and Juan Carlos Pérez-Morán.*
- 17.20 – 17.30 Importance of auditory development in conservatory students and its repercussion in the learning of another language. Case study. *Rocío Chao-Fernández, Ruth Alonso-Jartín and Aurelio Chao-Fernández.*



Track 13. Uncertainty in Digital Humanities

Wednesday, 24th October
Room 17A, IUCE

- 9.00 – 9.10 Presentation “Track 13. Uncertainty in Digital Humanities”
- 9.10 – 9.20 Managing Uncertainty in the Humanities: Digital and Analogue Approaches. *Jennifer Edmond.*
- 9.20 – 9.30 Applying Commercial Computer Vision Tools to Cope with Uncertainties in a Citizen-driven Archive. *Amelie Dorn, Eveline Wandl-Vogt, Thomas Palfinger, Jose Luis Preza Diaz, Barbara Piringer, Alexander Schatek and Rainer Zoubek.*
- 9.30 – 9.40 Analyzing Constructional Change: Linguistic Annotation and Sources of Uncertainty. *Marie-Luis Merten and Nina Seemann.*
- 9.40 – 9.50 Representing Imprecise and Uncertain Knowledge in Digital Humanities: A Theoretical Framework and ConML Implementation with a Real Case Study. *Patricia Martin-Rodilla and Cesar Gonzalez-Perez.*
- 9.50 – 10.00 Dotmocracy and Planning Poker for Uncertainty Management in Collaborative Research. *Enric Senabre.*
- 10.10 – 10.20 Uncertainty in the spatial metadata of historical photographs – A geomatic and photogrammetric driven argumentation. *Wolfgang Dörner, Anne Weinfurter and Simon Graf.*
- 10.20 – 10.30 Artificial intelligence and the automatic classification of historical photographs. *Florian Eiler, Simon Graf and Wolfgang Dörner.*
- 10.30 – 10.40 Toward supporting decision-making under uncertainty in digital humanities with progressive visualization. *Roberto Theron, Antonio Losada, Alejandro Benito Santos and Rodrigo Santamaria.*
- 10.40 – 10.50 Applying topic modeling techniques to degraded texts. Spanish historical press during the Transición (1977-1982). *Carlos Figuerola.*
- 10.50 – 11.30 General joint discussion
- 11.30 – 12.00 Coffee break
- 12.30 – 13.00 TEEM 2018 Conference Opening Session



Track 4. New publishing and scientific communication ways: Electronic edition, Information metrics and digital educational resources

Wednesday, 24th October
Room 12A, IUCE

Presentation "Track 4. New publishing and scientific communication ways: Electronic edition, Information metrics and digital educational resources"

- 13.00 – 13.10 Under the hood of digital humanities: toys or opportunities? *André Pacheco.*
- 13.10 – 13.20 Metrics and Altmetrics: an exploratory study of a possible correlation between the most cited papers in open and restricted access in 2016-2018. *André Pacheco, Alexandre Medeiros, Ângela Yanai, Susana Lopes and Luís Machado.*
- 13.20 – 13.30 Education as an object of study in Latin America and the interests of the scientific community. A bibliographical approach based on a systematic literature review. *Wiselis-Rosanna Sena-Rivas, Francisco-Javier Herrero-Gutiérrez, Cruz-Alberto Martínez-Arcos and Sonia Casillas-Martín.*
- 13.30 – 13.40 A Preliminary Study of Proof of Concept Practices and their connection with Information Systems and Information Science. *Antonio Jose Rodrigues Neto, Maria Manuel Borges and Licinio Roque.*
- 13.40 – 13.50 Academic digital books: The publishing industry VS Openness in book Reading. *Evaristo Ovide and Francisco José García Peñalvo.*
- 13.50 – 14.00 Validity and reliability of a survey to know the technological acceptance of an institutional repository: The case of resources on energy and sustainability. *Laura Icela Gonzalez Perez, María Soledad Ramirez Montoya, Francisco Jose Garcia Peñalvo, Jaime Ricardo Valenzuela Gonzalez and Ana Maria Pinto Llotrente.*

Track 11. Smart Learning

Wednesday, 24th October
Room 17A, IUCE

Presentation "Track 11. Smart Learning"

- 16.00 – 16.15 Enchanted Talk: Multiplayer Gamification using google Spreadsheets. *Francisco José Gallego Durán and Carlos J. Villagrà Arnedo.*
- 16.15 – 16.30 SmartLET: Learning analytics to enhance the design and orchestration in scalable, IoT-enriched, and ubiquitous Smart Learning Environments. *Carlos Delgado Kloos,*



Yannis Dimitriadis, Davinia Hernandez-Leo, Pedro J. Muñoz-Merino, Miguel Bote-Lorenzo, Mar Carrió, Carlos Alario-Hoyos, Eduardo Gómez-Sánchez and Patricia Santos.

16.30 – 16.45 Estimating the difficulty of a learning activity from the training cost for a machine learning algorithm. *Francisco Gallego-Durán, Rafael Molina-Carmona and Faraón Llorens-Largo.*

16.45 – 17.00 Decision support tools for SLR search string construction. *Samuel Marcos and Francisco J. García-Peñalvo.*

17.30 – 18.00 Coffee break

Track 16. Doctoral Consortium

Wednesday, 24th October
Room 8A, IUCE

The presentation in the Doctoral Consortium track will be different from other tracks. First part will be focused on the oral presentation of papers through a scientific Poster.

Last part of the session will be a roundtable with the participation of different experts from the Scientific Committee. Moreover, Doctoral students who for some reason send their papers to other track, they are encouraged to participate in the session of Doctoral Consortium too.

16.00 – 16.10 Presentation “Track 16. Doctoral Consortium”

16.10 - 16.20 Gender gap in the STEM sector in pre and university studies of Europe associated with ethnic factors. *Sonia Verdugo Castro, María Cruz Sánchez Gómez and Alicia García Holgado.*

16.20 – 16.30 Methodology for Improvement in Energy Efficiency Training Programs in Professional Environments. *Francisco Barrio, Francisco Jose Garcia-Peñalvo and Maria Luisa Sein-Echaluze.*

16.30 – 16.40 Privacy and identity management in Learning Analytics processes with Blockchain. *Daniel Amo Filvà, Francisco José García Peñalvo, Marc Alier Forment, David Fonseca Escudero and María José Casañ.*

16.40 – 16.50 Utilizing technological ecosystems to support graduate students in their practicum experiences. *Harold Tinoco-Giraldo, Eva Maria Torrecilla Sánchez and Francisco José García Peñalvo.*

16.50 – 17.00 Study of the use of subtitling of media fictions in language learning related to character identification. *Jia Lin and Lifan Cheng.*

17.00 – 17.10 Training in innovation and entrepreneurship in Primary Education. *Sara González-Tejerina and Maria-Jose Vieira.*



- 17.10 – 17.20 European higher education: a comparative analysis to evaluate the pedagogical training of professors and to investigate the different models developed by universities. *Maria-Serena Rivetta, María-José Rodríguez-Conde and Susana Olmos-Migueláñez.*
- 17.20 – 17.30 How to correct the behavior of citizens from public entities? The case of Nudges. *Marta Cerezo Prieto, Ricardo Rivero Ortega and Francisco Javier Frutos Esteban.*
- 17.30 – 18.00 Coffee break
- 18.00 – 18.10 Participation in software projects as professional communities of practice: A model. *Dayana Caridad Tejera-Hernández, Febe Angel Ciudad-Ricardo and Arno Libotton.*
- 18.10 – 18.20 Metacognitive and Collaborative Arguing through Computers by University Students. *Nancy MacCann-Alfaro, Erla Morales-Morgado and Ana García-Valcárcel.*
- 18.20 – 18.30 The relationship between university students' academic plagiarism and information competency. *Sandy Antonio Gutiérrez Ortiz and Erla Mariela Morales Morgado.*
- 18.30 – 18.40 Smart system based on adaptive learning itineraries. *Alberto Real Fernández, Rafael Molina Carmona, Faraón Llorens Largo*
- 18.40 – 20.00 Roundtable

Track 7. Advances on Sustainable Development in Higher Education

Wednesday, 24th October
Room 17A, IUCE

Presentation “Track 7. Advances on Sustainable Development in Higher Education”

- 17.00 – 17.15 A sustainable approach to let students do more real experiments with electrical and electronic circuits. *Gustavo Alves, Manuel Felgueiras, Clara Viegas, André Fidalgo, Maria Arcelina Marques, Ricardo Costa, Natércia Lima, Manuel Castro, Javier Garcia-Zubia, Andreas Pester, Wlodek Kulesza, Juarez Bento Silva, Ana Pavani, María Isabel Pozzo, Susana Marchisio, Ruben Fernandez, Vanderli Oliveira and Luis C. M. Schlichting.*
- 17.15 – 17.30 A MOOC on the science of climate change for primary and secondary teachers in Spanish. *Pablo Herrero Teijón, Santiago Andrés Sánchez, María Isabel Asensio Sevilla, Anne-Marie Ballegeer, Diego Corrochano Fernández, María Laura Delgado Martín, Vanessa Izquierdo Álvarez, Jesús Manuel Sampedro Gómez, Camilo Ruiz Méndez and Susana Lagüela López.*
- 17.30 – 18.00 Coffee break



- 18.00 – 18.15 Corporate Social Responsibility & Sustainable Development: The Indian perspective. *Dr. Mandeep Bhullar and Vikram Sharma.*
- 18.15 – 18.30 Continuing Engineering Education and Sustainability: IACEE Contribution with SERINA and Porto Declaration. *Alfredo Soeiro, Errol La Grange and Anthony Smith.*
- 18.30 – 18.45 Blended Mobility: a way for the Sustainable Internationalization of Higher Education. *Nuno Escudeiro and Paula Escudeiro.*
- 18.45 – 19.00 ZELab - planning a living lab to educate modern engineering professionals. *Manuel Felgueiras and Nidia Caetano.*

Workshop: Improving Financial culture through a Banking platform

Wednesday, 24th October
Room 13, IUCE

9.00 – 11.30

EU-Bank is an Erasmus+ Jean Monnet project to provide basic knowledge on key issues about EU financial system. One of the basic components of the project, available from the web site financialculture.org, is the web application. The application offers the functionality of a financial calculator and a new service called the financial advisor. This service allows anyone to send a query that will be answered by senior students of a financial degree with the guidance of their teacher.

This workshop aims to spread the use of the financial advisor inside EU-Bank and to provide basic financial culture for people with different backgrounds.

This workshop continues on Thursday 25th and Friday 26th.



Thursday, 25th October 2018

- 9.00 – 14.00 Registration. Help Desk.
16.00 – 20.00 *Location: GRIAL Office (IUCE)*
- 9.00 – 13.45 Sessions: Track 2, 8, 10, 15
Location: IUCE
- 9.00 – 11.30 Workshop: Improving Financial culture through a Banking platform
Location: Room 13
- 11.30 – 12.00 Coffee break
Location: IUCE
- 14.00 – 16.00 Lunch
- 16.00 – 19.00 Sessions: Track 3, 5, 6, 14
Location: IUCE
- 17.30 – 18.00 Coffee break
- 19:00 – 20.00 Discussion: “(Wandering) on the acceleration of the technological change, its impact on society and implications for educators”. *Marc Alier and David Griffiths*
Location: Assembly Hall. Faculty of Education
- 21.00 Thursday Gala Dinner and FRAM (First Recognized Awards Multiculturality).
(Confirmation needed).
Location: La Hoja 21 (C/ San Pablo, 21)



Track 2. Engineering Education and Technological / Professional Learning

Thursday, 25th October
Room 12A, IUCE

Presentation “Track 2. Engineering Education and Technological / Professional Learning”

- 9.00 – 9.15 Practical Work and Assessment to Stimulate Student Participation and Motivation in Fluid Transport Issues. *Maria Teresa Sena Esteves, Cristina Morais, Anabela Guedes, Isabel Brás Pereira, Margarida Ribeiro, Filomena Soares and Celina Pinto Leão.*
- 9.15 – 9.30 Motivating Engineering students to Improve Teamwork and Time Management. *Sophie Gorgemans, Maria Jesus Alonso-Nuez and Jorge Rosell-Martinez.*
- 9.30 – 9.45 Experience in the implementation of projects in professional environment in a 1st cycle of studies of Civil Engineering. *Diogo Ribeiro, Teresa Neto, Ricardo Santos and Maria De Fátima Portela.*
- 9.45 – 10.00 Educational content using Blind/Deaf Communications API. *Paula Escudeiro, Bertil Marques, Piedade Carvalho, Ana Barata, Patricia Queiros, Ana Sousa, Carlos Dias, Emanuel Rocha and João Ulisses.*
- 10.00 – 10.15 Training engineering students for the world of work: a case study. *Milagros Huerta, Néstor Mora, Carlota Armillas and Javier Jacob Núñez.*
- 10.15 – 10.30 Outdoor Intelligent Shader – An EPS@ISEP 2018 Project. *Christopher Mahon, Marta Majewska, Manuel Baptista, Melanie Tscholl, Sven Bergervoet, Benedita Malheiro, Cristina Ribeiro, Jorge Justo, Manuel Silva, Paulo Ferreira and Pedro Guedes.*
- 10.30 – 10.45 Improving presentation skills in the context of software project management teaching. *Terje Samuelsen, Ricardo Colomo-Palacios and Ole Anders Danielsen.*
- 10.45 – 11.00 The application of new teaching methodologies: experience in actual situations. *Isabel Revilla and Ana M. Vivar.*
- 11.00 – 11.15 Newton’s cradle: a smartphone-based video analysis approach. *Pablo Martin-Ramos, Mário S.M.N.F. Gomes and Manuela Ramos Silva.*
- 11.15. – 11.30 Questions



Track 15. Communication, Education and Social Media

Thursday, 25th October
Room 17A, IUCE

Presentation "Track 15. Communication, Education and Social Media"

- 9.30 – 9.40 Like it or die: using social networks to improve collaborative learning in higher education. *Eva Lahuerta Otero, Rebeca Cordero Gutiérrez and Vanessa Izquierdo Álvarez.*
- 9.40 – 9.50 Combined Effects of Similarity and Imagined Contact on First-Person Testimonials. The Mediating Role of Identification and Transportation. *Diego Cachón, Juan José Igartua, Magdalena Wojcieszak, Iñigo Guerrero and Isabel Rodríguez-de-Dios.*
- 9.50 – 10.00 Direct online political communication effects on civil participation in Spain: an experimental study. *Lifen Cheng.*
- 10.00 – 10.10 A Three-Step Data-Mining Analysis of Top-Ranked Higher Education Institutions' Communication on Facebook. *Alvaro Figueira.*
- 10.10 – 10.20 Social networks as a promotional space for Spanish radio content. The case study of the on-demand programming of Cadena SER and COPE. *Rafael Galán-Arribas, Francisco-Javier Herrero-Gutiérrez, Cruz-Alberto Martínez-Arcos and Sonia Casillas-Martín.*
- 10.20 – 10.30 Towards the study of sentiment in the public opinion of science in Spanish. *Patricia Sánchez-Holgado and Carlos Arcila-Calderón.*
- 10.30 – 10.40 The Relation between Cinema, Subtitled Series and Spanish Learning for Chinese Students of Spanish Language. *Jia Lin and Lifen Cheng.*
- 10.40 – 10.50 Specifics of multimedia texts in the context of social networks media aesthetics. *Elena Panova and Vasilii Fedorov.*
- 10.50 – 11.00 University Media in Ecuador: Types, Functions and Self-determination. *Juan Pablo Trámpuz, Daniel Barredo Ibáñez and Carlos Arcila Calderón.*
- 11.00 – 11.10 Framing theory in studies of environmental information in press. *Jorge Holguera Illera and Maria Luisa Humanes Humanes.*
- 11.10 – 11.30 Questions



Track 8. Implementation of Qualitative and Mixed Methods Researches

Thursday, 25th October
Room 17A, IUCE

Presentation "Track 8. Implementation of Qualitative and Mixed Methods Researches"

- 12.00 – 12.15 A Research into the students' perceptions of technology and inclusive education. *Ana M. Pinto-Llorente, M. Cruz Sánchez-Gómez, Óscar José Martín-Sánchez and M. Teresa Del Moral-Marcos.*
- 12.15 – 12.30 Content analysis of visual elements in scientific journalism (on the example of the website postnauka). *Svetlana Panyukova.*
- 12.30 – 12.45 Research Methods of the Musical Aesthetics Verbalization in the Context of Russian-Language Social Networks. *Maxim Demchuk.*
- 12.45 – 13.00 Virtual Reality versus Master Class. A comparative study. *Eva Jiménez, Gonzalo Mariscal, Manuela Heredia and Guillermo Castilla.*
- 13.00 – 13.15 Research methods of visual mass-media content. *Svetlana Simakova.*
- 13.15 -13.30 Comprehensive analysis of the mass media visual component in the aspect of media aesthetics. *Irina Topchii.*
- 13.30 – 13.45 Applied mediaesthetic as a tool to analyze video contents from YouTube. *Arina Medvedeva.*

Track 10. Teacher Education for ICT integration in classroom

Thursday, 25th October
Room 12A, IUCE

Presentation "Track 10. Teacher Education for ICT integration in classroom"

- 12.00 – 12.13 Macro Analysis on how to Potentiate Experimental Competences Using VISIR. *Natércia Lima, Clara Viegas, Maria Arcelina Marques, Gustavo Alves and Francisco José García Peñalvo.*
- 12.13 – 12.26 Gamification in the Social Environment: a tool for Motivation and Engagement. *Staling Cordero Brito and Juan Mena.*
- 12.26 – 12.39 Relationship between classroom environment and emotions in science students. *Pedro Membiela, Laura Cal and Ares Jimenez.*



- 12.39 – 12.52 Teachers' attitude and beliefs towards Use of ICT in Teaching and Learning: Perspectives from India. *Manpreet Kaur and Balwant Singh.*
- 12.52 – 13.05 Distance Learning for Aesthetic Education - Informed Professional Development and Life-Long Learning of Student Teachers. *Roza Valeeva, Svetlana V. Karkina and Andreja Istenič Starčič.*
- 13.05 -13.18 The 'supply chain' of teachers' digital skills training. The TPACK traceability in the teachers' trainers. *Loredana Perla, Laura Sara Agrati and Viviana Vinci.*
- 13.18 – 13.31 Professional cooperation in primary school classes: general education teacher and specialization teacher views. *Stavroula Kaldi, Vassiliki Tzika and Efsthios Xafakos.*
- 13.31 – 13.43 A Pre-Service Teacher Training Programme about Video Games: Perceptions of Knowledge about PEGI. *Marta Martín Del Pozo, Ana García-Valcárcel Muñoz-Repiso and Azucena Hernández Martín.*

Track 3. Evaluation in education and guidance

Thursday, 25th October
Room 17A, IUCE

Presentation "Track 3. Evaluation in education and guidance"

- 16.00 – 16.15 Development of information literacy in primary and secondary schools in Castile and León (Spain). *Manuel Lucas Ledesma, Antonio Miguel Seoane-Pardo, Óscar Carbonell-Carqués, María José Daniel-Huerta, Juan Antonio Hernández-Fuentevilla and Purificación Cardenal-Lubiano.*
- 16.15 – 16.30 Using Visualizations to Improve Assessment in Blended Learning Environments. *Mikel Villamañe, Ainhoa Alvarez, Mikel Larrañaga, Oscar Hernández-Rivas and Jessica Caballero.*
- 16.30 – 16.45 Mobile Acceptance and Learning Beliefs. A Cross-Cultural Assessment Between China and Spain. *José Carlos Sánchez Prieto, Fang Huang, Timothy Teo, Francisco José García Peñalvo and Eva María Torrecilla-Sánchez.*
- 16.45 – 17.00 Digital competences and teaching of classical languages: students' perception in Italian and Spanish schools. *Daniela Canfarotta, Janet Wolf and Raquel Casado-Muñoz.*
- 17.00 – 17.15 Big Data in Education: Detection of ICT Factors Associated with School Effectiveness with Data Mining Techniques. *Fernando Martínez-Abad, Adriana Gamazo and María José Rodríguez-Conde.*
- 17.15 – 17.30 Exploring the potential of a 360° video application for foreign language learning. *Anke Berns, Jose Miguel Mota, Ivan Ruiz-Rube and Juan Manuel Dodero.*
- 17.30 – 18.00 Coffee break



- 18.00 – 18.15 Construction and validation of a questionnaire to assess student satisfaction with mathematics learning materials. *Alién García-Hernández and Teresa González-Ramírez.*
- 18.15 – 18.30 Specialized services for students with special educational needs in the Spanish education system. *Sara González-Tejerina and Maria-Jose Vieira.*
- 18.30 – 18.45 Relationship between School Performance and Emotional Intelligence with TMMS-24 in high performance school adolescents in Sao Paulo (Brazil). *Maria Vaquero Diego, Maria José Rodríguez Conde, Patricia Torrijos Fincias and Samuel Molina Schnorr.*
- 18.45 – 19.00 Questions

This track continues on Friday 26th.

Track 5. Learning Analytics: The good, the bad and the ugly

Thursday, 25th October
Room 12A, IUCE

Presentation “Track 5. Learning Analytics: The good, the bad and the ugly”

- 16.00 – 16.10 A comparison of students’ emotional self-reports with automated facial emotion recognition in a reading situation. *Franziska Hirt, Ivan Moser, Egon Werlen, Christof Imhof and Per Bergamin.*
- 16.10 – 16.20 Privacy and identity management securing Learning Analytics on the Blockchain. *Marc Alier Forment, Daniel Amo Filvà, Francisco José García Peñalvo, Miguel Ángel Conde González, David Fonseca Escudero and María José Casañ.*
- 16.20 – 16.30 Using Visual Learning Analytics to Support Competence-based Learning. *Mikel Villamañe, Ainhoa Alvarez, Mikel Larrañaga, Jessica Caballero and Oscar Hernández-Rivas.*
- 16.30 – 16.40 Predictive models of academic success: a case study with version control systems. *Ángel Manuel Guerrero-Higueras, Noemí Decastro-García, Vicente Matellan and Miguel Ángel Conde.*
- 16.40 – 16.50 Remote Experimentation supported by Learning Analytics and Recommender Systems. *Alexandre Gonçalves, Gustavo Alves, Lucas Carlos, Juarez da Silva and João Alves.*
- 16.50 – 17.00 Integrating quantitative and qualitative data in assessment of wiki collaborative assignments. *Manuel Palomo-Duarte, Antonio Balderas Alberico, Juan Manuel Dodero Beardo, Antonio Reinoso, Juan Antonio Caballero and Pablo Delatorre.*
- 17.00 – 17.10 Agile methods as problem-based learning designs: setting and assessment. *Elena García-Barriocanal, Miguel-Angel Sicilia, Salvador Sánchez-Alonso and Juan-José Cuadrado.*
- 17.10 – 17.20 Questions



Track 6. Technological innovations in biomedical training and practice

Thursday, 25th October
Room 8A, IUCE

- 16.00 – 16.10 Presentation “Track 6. Technological innovations in biomedical training and practice”
- 16.10 – 16.20 Use of 3D PDF (portable document format) in radiological models: Tools and applications. *Roberto-Domingo Tabernero-Rico, Juan A. Juanes and Alberto Prats-Galino.*
- 16.20 – 16.30 Software applications for the digital management of radiological images in the study of the corticospinal tract. *Katrin Muradas-Mujika, Juan Antonio Juanes-Méndez and Andrés Framiñán-De Miguel.*
- 16.30 – 16.40 Technological development of visualization of magnetic resonance sectional images and pelvic floor ultrasonography for teaching purposes. *Lourdes Asensio Romero, Manuel Asensio Gómez, Alberto Prats-Galino and Juan A. Juanes Mendez.*
- 16.40 – 16.50 NextMed: How to enhance 3D radiological images with Augmented and Virtual Reality. *Santiago González Izard, Juan A. Juanes Méndez, Pablo Ruisoto Palomera and Francisco J. García-Peñalvo.*
- 16.50 – 17.00 Neuronavigation Software to visualize and surgically approach brain structures. *Jesús M Gonçalves, M J Sanchez-Ledesma, P Ruisoto, M Jaramillo, J J Jimenez and J A Juanes.*
- 17.00 – 17.30 Final discussion (biomedical imaging)
- 17.30 – 18.00 Coffee break
- 18.00 – 18.10 Transcranial Magnetic Stimulation versus Transcranial Direct Current Stimulation as neuromodulatory techniques in stroke rehabilitation. *María Antonia Fuentes Calderón, Laura Olmedo Jiménez and María José Sánchez Ledesma.*
- 18.10 – 18.20 Design of an ultrasound simulation tool for procedures training and Learning. *Jorge Muriel-Fernández, J Manuel López-Millan, Juan A Juanes Méndez and M J Sanchez-Ledesma.*
- 18.20 – 18.30 Trends in European research projects focused on technological ecosystems in the health sector. *Samuel Marcos-Pablos, Alicia García-Holgado and Francisco José García-Peñalvo.*
- 18.30 – 18.40 Technological Devices for Enhancing Active Learning. *Juan A Juanes and Pablo Ruisoto.*
- 18.40 – 18.50 Final discussion (simulation and other applications)

This track continues on Friday 26th.



Track 14. 9th International Workshop on Software Engineering for E-learning (ISELEAR'18)

Thursday, 25th October
Room 12A, IUCE

Presentation "Track 14. 9th International Workshop on Software Engineering for E-learning (ISELEAR'18)"

- 18.00 – 18.10 Mapping the systematic literature studies about software ecosystems. *Alicia García-Holgado and Francisco José García Peñalvo.*
- 18.10 – 18.20 Tag-Based Browsing of Digital Collections with Inverted Indexes and Browsing Cache. *Joaquín Gayoso-Cabada, Mercedes Gómez-Albarrán and José-Luis Sierra.*
- 18.20 – 18.30 Document Annotation Tools: Annotation Classification Mechanisms. *Joaquín Gayoso-Cabada, Antonio Sarasa-Cabezuelo and José-Luis Sierra.*
- 18.30 – 18.40 A Multivocal Literature Review on the use of DevOps for e-learning systems. *Mary Sánchez-Gordón and Ricardo Colomo-Palacios.*
- 18.40 – 18.50 Domain engineering for generating dashboards to analyze employment and employability in the academic context. *Andrea Vázquez-Ingelmo, Francisco José García-Peñalvo and Roberto Theron.*

Workshop: Improving Financial culture through a Banking platform

Thursday, 25th October
Room 13, IUCE

9.00 – 11.30

EU-Bank is an Erasmus+ Jean Monnet project to provide basic knowledge on key issues about EU financial system. One of the basic components of the project, available from the web site financialculture.org, is the web application. The application offers the functionality of a financial calculator and a new service called the financial advisor. This service allows anyone to send a query that will be answered by senior students of a financial degree with the guidance of their teacher.

This workshop aims to spread the use of the financial advisor inside EU-Bank and to provide basic financial culture for people with different backgrounds.

This workshop continues on Friday 26th.



Friday, 26th October 2018

- 9.00 – 13.00 Registration. Help Desk.
Location: GRIAL Office (IUCE)
- 9.00 – 13.00 Sessions: Track 1, 3, 6
Location: IUCE
- 11.30 – 12.00 Coffee break
Location: IUCE
- 13.00 – 13.15 Plenary Session: J. Ángel Velázquez-Iturbide. Report of the Spanish Computing Scientific Society on Computing Education in Pre-University Stages
Location: Assembly Hall. Faculty of Education.
- 13.15 – 14.00 TEEM 2018 Conference Closing Session
Closure speech
Awards
Location: Assembly Hall. Faculty of Education.
- 13.00 – 17.00 Lunch
- 17.00 – 18.30 Salamanca Guided Tour in English (Previous registration needed, limited to 50 participants)
Location: In front of the City Hall in Plaza Mayor.

Track 1. Computational thinking in pre-university education

Friday, 26th October Room 13A, IUCE

Presentation “Track 1. Computational thinking in pre-university education”

- 11.50 – 12.00 Teaching computational thinking to Down syndrome students. *Carina Soledad González González, Erika Herrera González, Lorenzo Moreno Ruiz, Alfonso Infante Moro, María Dolores Gumán Franco.*
- 12.00 – 12.10 Exploring the Effect of a Robotics Laboratory on Computational Thinking Skills in Primary School Children Using the Bebras Tasks. *Giuseppe Chiazese, Marco Arrigo, Antonella Chifari, Violetta Lonati and Crispino Tosto.*
- 12.10 – 12.20 Increase of confidence for the solution of problems in pre-university students through Computational Thinking. *Arturo Rojas-López and Francisco José García Peñalvo.*
- 12.20 – 12.30 Approaches of Learning and Computational Thinking in Students that get into the Computer Sciences Career. *Klinge Orlando Villalba-Condori, Cristina Bender, Claudia Deco, Sonia Esther Castro-Cuba-Sayco and Evelyn Paola Guillen Chávez.*



- 12.30 – 12.40 A robotics-based approach to foster programming skills and computational thinking: Pilot experience in the classroom of early childhood education. *Yen Air Caballero González and Ana García-Valcárcel Muñoz-Repiso.*
- 12.40 – 12.50 Building Skills in Introductory Programming. *José Figueiredo and Francisco García-Peñalvo.*
- 12.50 – 13.00 An experience with the App Inventor in CS0 for the development of the STEM didactics. *José-Alfredo Martínez-Valdés and Nathalia Andrea Martínez Ijaí.*
- 13.00 – 13.15 Plenary Session: *J. Ángel Velázquez-Iturbide.* Report of the Spanish Computing Scientific Society on Computing Education in Pre-University Stages
Location: Assembly Hall. Faculty of Education.
- 13.15 – 14.00 TEEM 2018 Conference Closing Session

Track 3. Evaluation in education and guidance

Friday, 26th October
Room 17A, IUCE

Presentation “Track 3. Evaluation in education and guidance”

- 9.30 – 9.45 Needs detected by the agents involved in Dual Vocational Training. A single-case study. *Marta Virgós-Sánchez and Joaquin-Lorenzo Burguera.*
- 9.45 – 10.00 Inclusion of the students in schools with a intercultural profile: an assessment from the migrant perspective in STEMS Project. *Alicia García-Holgado, José Carlos Sánchez-Prieto, Lucía García-Holgado, Valentina Zangrando, Ömer Yiğit and Francisco José García-Peñalvo.*
- 10.00 – 10.15 Evaluation of Multimedia Applications aimed to support the participation of Youth with Intellectual Disability in relation to the AAID support needs. *Esther Baños-García, Fernando Lezcano-Barbero and Raquel Casado-Muñoz.*
- 10.15 – 10.30 Skills of university professor and their evaluation. *Ana Belen Lopez Camara, María-Dolores Eslava-Suanes, Ignacio González López and De León Huertas Carlota.*
- 10.30 – 10.45 Soft Skills assessment in Art and Globalization. *Noemi de Haro-Garcia, Marta Comas Lopez, Kajetan Piotr Hincz, Mirela Mazalu and Sacha Gómez.*
- 10.45 – 11.00 Delphi study to identify the young people priorities about digital society. *María-José Rodríguez-Conde, Alicia García-Holgado, Valentina Zangrando, Francisco-José García-Peñalvo.*
- 11.30 – 12.00 Coffee break



- 12.00 – 12.15 A system of indicators for assessing scientific and technological capacity at local universities. *Hilda Angélica Del Carpio Ramos, Pedro Antonio Del Carpio Ramos and Francisco José García-Peñalvo.*
- 12.15- 12.30 Which is or should be the ideal level of participation of students of higher education in their own education? A theoretical model of relations between the university and their students and the quality of higher education. *José Ortega-Mohedano and María-José Rodríguez-Conde.*
- 12.30 – 12.45 Adaptive tests as a supporting tool for self-evaluation in theoretical and practical contents in Biochemistry. *Marta Comas Lopez, Kajetan Piotr Hincz, Alejandra Gámez, María Yáñez Mo and Sacha Gómez.*
- 12.45 – 13.00 Development and use of mobile technologies that foster students' evaluative judgement: a design-based research. *Jaione Cubero-Ibáñez, María Soledad Ibarra-Sáiz and Gregorio Rodríguez-Gómez.*
- 13.00 – 13.15 Plenary Session: *J. Ángel Velázquez-Iturbide.* Report of the Spanish Computing Scientific Society on Computing Education in Pre-University Stages
Location: Assembly Hall. Faculty of Education.
- 13.15 – 14.00 TEEM 2018 Conference Closing Session

Track 6. Technological innovations in biomedical training and practice

Friday, 26th October
Room 12A, IUCE

- 9.00 – 9.10 From Digital Medical Collections to Radiology Training E-Learning Courses. *Félix Buendía, Joaquín Gayoso-Cabada and José-Luis Sierra.*
- 9.10 – 9.20 3D Visualization Techniques in Health Science Learning. Application case of Thermographic Images to Blood Flow Monitoring. *Pablo Rodríguez-González, Manuel Rodríguez-Martín, Beatriz Alonso-Cortés Fradejas and Ildefonso Alvear-Ordenes.*
- 9.20 - 9.30 The importance of the new Apps technology in the study of anatomy by the students of medicine. *Maria Teresa Ugidos Lozano, Gonzalo Ferrer Ugidos, Alonso Blaya San Pedro, Cristina Blaya San Pedro, Sadia Manzoor and Juan Antonio Juanes Mendez.*
- 9.30 – 9.45 Discussion (biomedical imaging)
- 9.45 – 9.55 Postural morphological model for the characterization of raquis lumbar. *Pilar San Pedro, Fernando Blaya, Roberto D'Amato, Juan A. Juanes, Luis Tomás Gallego Morales and José Antonio Rodríguez Montes.*



- 9.55 – 10.05 Simulator for medical training in spasticity treatment techniques based on ultrasound imaging guidance. *Juan Alberto García Esteban, Belén Curto Diego, Vidal Moreno Rodilla, Fco. Javier Serrano, Pablo Alonso, Felipe Hernandez and Juan A. Juanes.*
- 10.05 – 10.15 Mapping Raw Acceleration Data on ActiGraph Counts: A Machine Learning Approach. *Elena Martín-González, Rodrigo de-Luis-García, Pablo Casaseca-de-la-Higuera, José Ramón Garmendia-Leiza, Jesús Andrés-de-Llano and Carlos Alberola-López.*
- 10.15 – 10.25 Study, Design and Prototyping of Oral Appliances to Treat Obstructive Sleep Apnea. *Néstor Montesdeoca García, Fernando Blaya, Emilio Lechosa Urquijo, Enrique Soriano Heras and Roberto D'Amato.*
- 10.25 – 10.35 Evaluation of cortical arousal by critical flicker fusion threshold in cyclists. *Vicente Javier Clemente-Suárez and Montaña Diaz-Manzano.*
- 10.35 – 10.45 Exploring students psychophysiological stress response in physiotherapy. *Ana Isabel Beltrán-Velaco, Pablo Ruisoto-Palomera, Alberto Bellido-Esteban, Mónica García-Mateos and Vicente Javier Clemente-Suárez.*
- 10.45 – 10.55 A complete psychophysiological profile of a Paralympic athlete in a ultraendurance. A case study. *Pedro Belinchon-DeMiguel, Pablo Ruisoto-Palomera and Vicente Javier Clemente-Suárez.*
- 10.55 – 11.10 Discussion (simulation and other applications)
- 11.10 – 11.20 A study evaluating the level of satisfaction of the students of health sciences about the use of 3d printed bone models. *Maria Teresa Ugidos Lozano, Roberto D'Amato, Alessandro Ruggiero, Sadia Manzoor, Fernando Blaya Haro and Juan Antonio Juanes Mendez.*
- 11.20 – 11.30 Composite material created by additive manufacturing techniques FFF and Robocasting for the manufacture of medical parts*. *Alberto Sánchez Ramírez, Roberto D'Amato, Fernando Blaya Haro, Manuel Islan Marcos and José Maria de Agustín del Burgo.*
- 11.30 – 12.00 Coffee break
- 12.00 – 12.10 Monitoring of the additive manufacturing process for the use of biomaterials in medical field. *Fernando Blaya Haro, José María de Agustín del Burgo, Roberto D'Amato, Manuel Islan, Enrique Soriano Heras and Jesus Manuel Garcia Alonso.*
- 12.10 – 12.20 Design and prototyping by additive manufacturing of a functional splint for rehabilitation of Achilles tendon intrasubstance rupture. *Fernando Blaya, Pilar San Pedro, Alonso Blaya San Pedro, Julia Lopez-Silva, Juan A. Juanes and Roberto D'Amato.*
- 12.20 – 12.30 Finite Element Simulation and Analysis of the behavior under load of a human shoulder. *Manuel Islan, Emilio Lechosa Urquijo, Fernando Blaya, Roberto D'Amato, Juan A. Juanes and Enrique Soriano Heras.*



- 12.30 – 12.40 On the Dental BioTribology: Comparison of Zirconia/Zirconia and Zirconia/Natural Tooth Friction Coefficients by Using a Reciprocating Tribometer. *Alessandro Ruggiero, Roberto D'Amato, Ludovico Sbordone, Fernando Blaya and Antonio Lanza.*
- 12.40 – 12.55 Discussion (3D printing)
- 13.00 – 13.15 Plenary Session: *J. Ángel Velázquez-Iturbide.* Report of the Spanish Computing Scientific Society on Computing Education in Pre-University Stages
Location: Assembly Hall. Faculty of Education.
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Workshop: Improving Financial culture through a Banking platform

Thursday, 25th October
Room 13, IUCE

9.00 – 11.30

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A stylized map of Salamanca, Spain, rendered in a light purple color. The map shows a dense network of streets and building footprints, with a prominent river (the Tago) flowing through the lower portion. The word "SALAMANCA" is printed in large, white, sans-serif capital letters across the bottom right of the map.

SALAMANCA

Eat...



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

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
Ciencias de la Educación
(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
Ciencias de la Educación (IUCE)
University of Salamanca
Paseo de Canalejas, 169
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Email: grial@usal.es

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