



2nd

# ICETIC

Innovative and Creative Education  
and Teaching International Conference

Scientific  
Programme



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(Polytechnic University of Valencia, Spain)

## GENERAL SCIENTIFIC PROGRAMME

### Wednesday, 20<sup>th</sup> of June 2018

<b>21:00-23:00</b>	Welcome Reception: Introduced by Dr Francisco Javier Frago, mayor of Badajoz and Dr Maria Isabel Sánchez Hernández, co-chair of ICETIC Venue: Casas Consistoriales (Plaza Alta Square, Badajoz city centre)
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### Thursday, 21<sup>st</sup> June 2018

<b>8:30-18:00</b>	Registration
<b>9:00-9:15</b>	Opening session: Introduced by Dr Santiago Cambero, co-chairman of ICETIC and Vice Dean of the Faculty of Education of the University of Extremadura and Dr Juan José Maldonado Briegas, General Director of Vocational Training and University of the Government of Extremadura
<b>9:15-10:15</b>	Keynote speaker: <b>“Oracle, take the future with your own hands”</b> , by Mr. Angel Bellas, Oracle Academy, Spain
<b>10:15-11:15</b>	Coffee Break & Poster session I
<b>11:15-13:00</b>	Oral communications I
<b>13:00-14:00</b>	Keynote speaker: <b>“Tear down the wall!: From classroom to hyperroom”</b> by Professor Mariano Fernández Enguita, Madrid Complutense University, Spain
<b>14:00-15:30</b>	Lunch
<b>15:30-18:00</b>	Oral communications II
<b>15:30-18:00</b>	Keynote speaker and round table (in Spanish): <b>Gestión integral de los centros para responder a los nuevos retos educativos</b> by Dr Nieves Fernández Vicente, principal of the San Felix Ikastetxea College, Basque Country, Spain
<b>21:00</b>	Conference dinner. <b>“Hotel Las Bóvedas”</b> Km. 405.7, Autovia Madrid-Lisboa, 06006 Badajoz

### Friday, 22<sup>nd</sup> of June 2018

<b>8:30-14:00</b>	Registration
<b>9:00-10:00</b>	Keynote speaker: <b>“Creating a Dialogue Between Innovation and Education through Visual Nudges”</b> by Niyati Mehta, Professor of Digital & Communication, Behavioral Design Lehman College and Nassau Community College, U.S.A.
<b>10:00-12:00</b>	Oral communications III
<b>12:00-13:00</b>	Coffee Break & Poster session II
<b>13:00-14:00</b>	Closing Keynote (in Spanish): <b>“La universidad ante el reto digital”</b>



	by Professor Alejandro Tiana Ferrer, Principal Spanish National Distance University (UNED), Spain
<b>14:00-14:15</b>	Closing Remarks, Announcement of award for best communication, and kick-off of ICETIC2019 by Dr Ramón Sanguino Galván, PhD. (cochairman of the conference), Dr María del Mar Guerrero Manzano (Vice-dean of Institutional Relations and Internationalisation of the University of Extremadura), and María Esther Gutiérrez Morán (Education Counsellor of the Government of Extremadura)
<b>14:15</b>	Delivery of lunch tickets
<b>20:00</b>	Walking Tour

## DETAILED SCIENTIFIC PROGRAMME

### THURSDAY, 21<sup>ST</sup> JUNE 2018

<b>8:30-18:00</b>	Registration
<b>9:00-9:15</b>	Opening session: Introduced by Dr Santiago Cambero, co-chairman of ICETIC and Vice Dean of the Faculty of Education of the University of Extremadura and Dr Juan José Maldonado Briegas, General Director of Vocational Training and University of the Government of Extremadura Location: Main conference room
<b>9:15-10:15</b>	Keynote speaker: <b>“Oracle, take the future with your own hands”</b> , by Mr. Angel Bellas, Oracle Academy, Spain Location: Main Conference room
<b>10:15-11:15</b>	Coffee-break & Posters session I
<b>11:15-13:00</b>	<b>Oral communications I</b> Session I.1. Room A1
	<b>The Effect of Active Learning Spaces on Students’ Writing Proficiency</b> Laurence Craven, Daniel Fredrick American University of Sharjah, United Arab Emirates
	<b>The historical novel in the university classroom of medieval history: a resource for teaching innovation</b> Juan Carlos Arboleda, Silvia María Pérez University Pablo de Olavide, Spain
	<b>Understanding the Central Limit Theorem the Easy Way: a Simulation Experiment</b> Monica Brussolo University of Texas at Dallas, United States of America

**More focus on Academic integration due to the governmental implementation of the Columbustool**

Miguel Van Slycke, Sofie Vispoel  
Artevelde University College Ghent, Belgium

**Cell Biology learning with an active practice based on guided research. Role of students' positive emotions**

José María Marcos-Merino, Jesús Gómez Ochoa de Alda, Rocío Esteban Gallego  
University of Extremadura, Spain

11:15-13:00

**Oral communications I**

**Session I.2. Room A2**

**Emigration, sense of belonging - a didactic experiment through cinema**

Miguel Castro  
Polytechnic Institute of Portalegre, Portugal

**How to create experiences connecting with what students care about?**

Leire Legarreta, Javier Gutiérrez, Iker Malaina, Iraide Mardones, Luis Martínez  
University of the Basque Country (UPV/EHU), Spain

**Active Learning and New Technologies in Business and Economics Higher Education: The Je Suis Econplus Experience**

Luis Regino Murillo Zamorano, José Ángel López Sánchez, Ana Luisa Godoy Caballero  
University of Extremadura, Spain

**"Teaching Lab" as an educational proposal in the initial training of Geography teachers**

Fátima Velez de Castro  
CEGOT and DGT - University of Coimbra, Portugal

**Building an Environment for Creative and Innovative Thinking**

Malavika Sundararajan  
Ramapo College of New Jersey, United States of America

**CALE: Learning by Example in Mathematics with Applets in Mathematical Computational Packages**

Luis Martínez, Javier Gutiérrez, Leire Legarreta, Iker Malaina, Iraide Mardones  
University of the Basque Country (UPV/EHU), Spain

11:15-13:00

**Oral communications II (session in Spanish)**

**Session I.3. Room A3**

**Nuevos instrumentos de evaluación de contenidos y competencias para el área de**

**economía en la Educación Secundaria: diseño de rúbricas**

Lara Montero de Espinosa Ramos  
University of Extremadura, Spain

**Expectativas y creencias de alumnado de secundaria post-obligatòria con escasos referentes universitarios sobre qué es y cómo estudiar en la universidad: Horitzons, un proyecto de mentoría social con estudiantes de grado de la UPF**

Carme Hernández Escolano, Manuel Jiménez Morales, Joan Miralles De Imperial, Ricard Zapata Barrero, Montserrat Espinós, Joan-Isidre Badell, Xavier Brunet, Gemma Garcia, Noèlia Rivas  
University Pompeu Fabra, Spain

**El laboratorio de Humanidades y Ciencias Sociales como estrategia motivadora e innovadora en la Educación Secundaria**

Mario Corrales Serrano, José Moreno Losada, Jesús Sánchez Martín, Francisco Zamora Polo  
University of Extremadura, Spain

**VISOR 2.0 Videojuego para inclusión educativa de niños sordos**

Cesar Mejía Zuluaga, María Elena Díaz Rico  
University San Buenaventura Cali, Colombia

**Comunidades de Aprendizaje y Redes Sociales ¿herramientas útiles para la elaboración de trabajos fin de estudios?**

José Francisco Rangel Preciado, María Inmaculada Fernández Martín  
University of Extremadura, Spain

**13:00-14:00**

Keynote speaker: **“Tear down the wall!: From classroom to hyperroom”**

by Professor Mariano Fernández Enguita,  
Madrid Complutense University, Spain  
Location: Main conference room

**14:00-15:30**

**Lunch**

**15:30-17:30**

Keynote speaker and round table (in Spanish): **Gestión integral de los centros para responder a los nuevos retos educativos**

by Dr. Nieves Fernández Vicente, principal of the San Felix Ikastetxea College, Basque Country, Spain  
Location: Main conference room

**15:30-18:00**

**Oral communications II**

**Session II.1. Room A1**

**CO-LAB: creating added value for students, lecturers and the business world in a co-creative environment**

Miguel Van Slycke

Artevelde University College Ghent, Belgium

**Pedagogical Uses of Digital Technologies by Pre and In-Service Teachers: Literature Review from a Global perspective to the Chilean Context**

Angela Novoa Echaurren, Alejandra Canales Tapia

UCL Institute of Education, United Kingdom

**The relationship among vocational high school students' social support, stress and mental health**

Shih-chi Chou, Wan-hsuan Yen

National Taiwan Normal University, Taiwan

**Social Networks & Learning Management Systems in Distance Education (DE): Scenarios to foster students' engagement**

Inês Messias, Lina Morgado

ISTAR-IUL - Information Sciences, Technologies and Architecture Research Center, Portugal

**Investigation and Development of an Inexpensive Educational Tool Suite for an Introduction to Programming**

Byron Batteson, Jean Greyling

Nelson Mandela University, South Africa

**Virtual Learning Environment, Generic skills and students' Satisfaction**

Teresa Carmen Herrador Alcaide, Montserrat Hernandez Solis

National University of Distant Learning, Spain

**15:30-18:00**

**Oral communications II**

**Session II.2. Room A2**

**Active Methodologies in Chemistry**

María José Ibáñez-González, Tania Mazzuca-Sobzuck

Almería University, Spain

**Adapting to Engineering Education Vision 2020**

Wasim Abass, Nasrullah, Khan

Mawyah Abdullah Al-Bkheet-Est, Saudi Arabia

**Innovation in teacher education: An integrative approach to teaching and learning science and mathematics**

Nelson Mestrinho, Bento Cavadas

Polytechnic Institute of Santarem, Portugal

**Teaching with LEEMUSICA /READMUSIC in Higher Education: Selfperception and improve in Music Education**

Rosario Castañón

University of Valladolid, Spain

**A case study of the use of ICT in face-to-face, third level English for Specific Purposes (ESP) courses**

Carlos Menéndez-Otero, Raquel Serrano-González, Isabel Gil-Naveira  
University of Oviedo, Spain

**Protecting Children in Saudi Arabia  
Cyberspace: Technology-moderated safety approach using Network Administration**

Wasim Abass, Naeem Abas Kalair  
Mawyah Abdullah Al-Bkheet-Est, Saudi Arabia

**Booktrailers and Bookémon Go! - BYOD and QR in Primary Education**

Francisco Manuel González Galán  
Government of Extremadura, Spain.

**15:30-18:00**

**Oral communications II (session in Spanish)  
Session II.3. Room A3**

**Hospfriends Construyendo redes de aprendizaje**

María Elena Díaz Rico  
University San Buenaventura Cali, Colombia

**El estudio de la escala a través del espacio:  
Una experiencia de innovación docente entre  
Escuelas de Arquitectura: Málaga, Sevilla y Palermo**

Susana García Bujalance, Manfredi Leone,  
Daniel Navas Carrillo  
UMA, US, IPA, Spain and Italy

**Percepción de roles y violencia de género  
entre los alumn@s de Enseñanza Secundaria  
de Olivenza**

Francisco Vega, Ana Lozano, Maria José Lopez Rey  
University of Extremadura, Spain

**Estrategias de gamificación para la  
introducción al alumno/a universitario en la  
lectura de textos científicos**

Francisco Manuel Parejo Moruno, Francisco Isidoro Vega Gomez, José Francisco Rangel Preciado  
University of Extremadura, Spain

**Experiencias de docencia multidisciplinar en la UEx**

María José López Rey, Beatriz Corchuelo, Nuria Corrales, María Ángeles Blanco, Cristina Barriuso, Antonio Miguel Linares, Ascensión Barroso, Georgina Adelina Cortes, Lourdes Moreno, María Inés Maesso  
University of Extremadura, Spain

**Neurodidáctica y Ciencias Sociales: Una experiencia de aplicación de la secuencia DAS en el aula de Geografía**

Mario Corrales Serrano, José Moreno Losada, Jesús Sánchez Martín, Francisco Zamora Polo  
University of Extremadura, Spain

**Relación entre los desordenes músculo esqueléticos, el estrés y la calidad de vida en instructores del Centro de Diseño y Manufactura del Cuero del Servicio Nacional de Aprendizaje (SENA)**

Noelva Eliana Montoya Grisales, Enoc Valentin Gonzalez Palacio  
National Service for Learning, Colombia

**eLXa: Una herramienta de autor para la elaboración de recursos de aprendizaje digitales**

Antonio Segura, Vanesa Martínez, Hugo Martínez, Tania Rilova  
University Isabel I, Spain

**Las motivaciones del docente universitario y el desempeño de competencias transversales en el aula**

Mario Corrales Serrano, Luis Espejo Antúnez, José Moreno Losada, Francisco Zamora Polo  
University of Extremadura, Spain

**21:00**

**Conference dinner. "Hotel Las Bóvedas"**  
Km. 405.7, Autovia Madrid-Lisboa, 06006 Badajoz

**FRIDAY, 22<sup>ND</sup> OF JUNE 2018**

**8:30-14:00**

**Registration**

**9:00-10:00**

**Keynote speaker: "Creating a Dialogue Between Innovation and Education through Visual Nudges"**

by Niyati Mehta, Professor of Digital & Communication, Behavioral Design  
Lehman College and Nassau Community College, U.S.A.

Location: Main Conference Room

**10:00-12:00**

**Oral communications III**

Session III.1. Room A1

**Learning by doing with the chocolate factory**

Ismael Gómez Gutiérrez  
Government of Extremadura, Spain

**Total Quality Management implementation in Portuguese Higher Education Institutions**

Marina Godinho Antunes, Pedro Ribeiro Mucharreira, Maria do Rosário Justino, Joaquín Texeira

ISCAL, Portugal

**Teaching Microbiology through a board game. Implications in students' learning and emotions**

Rocío Esteban Gallego, José María Marcos-Merino, Isaac Corbacho Cuello, Luciana Anahí Rojas  
University of Extremadura, Spain

**Editing ePub3 for Blended Learning in Mathematics**

F.J. Muriel Muriel, Carmen Galet  
University of Extremadura, Spain

**Teachers' Perceived Practices of Successive Approximation Model in Contexts of Vygotsky's Zone of Proximal Development**

Clement Ayarebilla Ali  
University of Education, Winneba, Ghana

**The Role of Software-Defined Networks for Practical Learning in the Engineering Areas**

Cristina Alcaraz, Antonio Ortega, Rodrigo Roman  
University of Malaga, Spain

10:00-12:00

**Oral communications III**

**Session III.2. Room A2**

**The relationship between teacher score, peer evaluation score, and peer feedback content through online peer assessment system**

Wan-Hsuan Yen, Shih-chi Chou  
National Taiwan Normal University, Taiwan

**The interrelationship between internship and employability: A critical literature review**

María del Mar Miralles-Quirós, Lourdes Jerez-Barroso  
University of Extremadura, Spain

**Creative Tools: how Education and Arts connect?**

Ana Catarina Pereira  
University of Beira Interior, Portugal

**Movies as a didactic tool in teaching**

Miguel Castro  
Polytechnic Institute of Portalegre, Portugal

**Educating for the Future Society: Preparing teachers and students for the Digital Transformation needed for Smart Cities**

Inês Messias, Ana Loureiro

ISTAR-IUL - Information Sciences,  
Technologies and Architecture Research  
Center, Portugal

**Utilization Of Instruction Materials As Tools  
For Effective Academic Performance Of  
Students, Implications For Counselling**

Roseline Olufunke Bukoye  
IBB University, Nigeria

**12:00-13:00 Coffee Break & Poster session II**

**13:00-14:00** Closing Keynote (in Spanish): **“La universidad ante el reto digital”**

by Professor Alejandro Tiana Ferrer, Principal  
of Spanish National Distance University  
(UNED), Spain

Location: Main conference room

**14:00-14:15** Closing Remarks, Announcement of award for

best communication, and kick-off of  
ICETIC2019 by Dr Ramón Sanguino Galván,  
PhD. (cochairman of the conference), Dr  
María del Mar Guerrero Manzano (Vice-dean  
of Institutional Relations and  
Internationalisation of the University of  
Extremadura), and María Esther Gutiérrez  
Morán (Education Counsellor of the  
Government of Extremadura)

**14:15 Delivery of lunch tickets**

**20:00 Walking tour**

**POSTER SESSION**

**(posters can be exhibited in the conference during all  
the event)**

Poster ICETIC01: Design and application of a computer tool  
to evaluate the goodness of fit for tests designed to be self-  
taught

**Maria Esther Gil Alegre, Irene Teresa Molina Martínez,  
Vanessa Andrés Guerrero, Irene Bravo Osuna, Rocío  
Herrero Vanrell, Pilar Pastoriza, Roberto Ruiz Caro, María  
Dolores Veiga Ochoa**

**Madrid Complutense University, Spain**

Poster ICETIC02: Cognitive level and teaching self-efficacy of  
future primary school teachers on concepts of optics

**Guadalupe Martinez Borreguero, Francisco Luis Naranjo  
Correa, Ángel Luis Pérez Rodríguez, Pedro José Pardo  
Fernández, Milagros Mateos Núñez**

**University of Extremadura, Spain**

Poster ICETIC03: The use of film in Geography and History  
classes: a theoretical approach

**Fátima Velez de Castro**

**CEGOT and DGT - University of Coimbra, Portugal**



Poster ICETIC04: Omani Students' perspective of communicative language teaching approach in higher Education in Oman: its practice and its impact on students' learning and motivation

**Mouza Said Saif Al Kalbani, Josu Solabarrieta Eizaguirre**  
**University of Nizwa, Oman**

Poster ICETIC05: Development of hyper-realistic simulations that allow a transversal teaching of optics at different educational levels

**Guadalupe Martinez Borreguero, Francisco Luis Naranjo Correa, Ángel Luis Pérez Rodríguez, Pedro José Pardo Fernández, M<sup>a</sup> Isabel Suero López**  
**University of Extremadura, Spain**

Poster ICETIC06: Multidisciplinary learning on laboratory-based dissertations for the design of low-cost electrical data acquisition systems

**Manuel Barragán, Javier Serrano, Alejandro Marano, Francisco García**  
**University of Seville, Spain**

Poster ICETIC07: Design of a Problem-Based Learning (PBL) methodology for a corrosion course

**José García Antón, Ramón Manuel Fernández Domene, Rita Sánchez Tovar, Bianca Lucas Granados**  
**Polytechnic University of Valencia, Spain**

Poster ICETIC08: Evaluation of the use of the computer application 'Tutoriza' for managing tutorial activities with undergraduate and graduate students by university professors

**Sergio Cordovilla Guardia, Cristina Franco Antonio, Esperanza Santano Mogena, Sergio Rico Martín, David Conde Caballero, Julian F. Calderon**  
**University of Extremadura, Spain**

Poster ICETIC09: Fund-raising in higher education sector in the United Arab Emirates using the case of MBRU

**Dahmed Bin Touq, Mouza Alkalbani**  
**University of Nizwa, Oman**

Poster ICETIC10: Are Basque children aware of the risks mushrooms may entail?

**Gloria Rodríguez-Loinaz, Josu Horrillo, Igone Palacios-Agundez**  
**University of the Basque Country, Spain**

Poster ICETIC11: Problem-based teaching through video podcasts for Coding and Cryptography

**Iker Malaina, Javier Gutierrez, Leire Legarreta, Iraide Mardones, Luis Martínez**  
**University of the Basque Country, Spain**

Poster ICETIC12: Learning by doing with the chocolate factory

**Ismael Gómez Gutiérrez**  
**Government of Extremadura, Spain**

Poster ICETIC13: Bee-plant relationship in early childhood: a study through the analysis of children's drawings

**Gloria Rodríguez-Loinaz, Naiara Toral, Igone Palacios-Agundez**

**University of the Basque Country, Spain**

Poster ICETIC14: Enfoque narrativo y escuela, reflexiones en torno a la intervención de "Problemáticas de comportamiento" desde la deconstrucción del relato y externalización del problema en contextos educativos

**Hector Alfredo Ramirez Vaca**

**University Corporation Minute of God, Colombia**

Poster ICETIC15: Evaluación del uso de la intervención motivacional breve para aumentar el rendimiento de estudiantes universitarios. Protocolo de ensayo clínico.

**Sergio Cordovilla Guardia, Cristina Franco Antonio, Esperanza Santano Mogeno, Sergio Rico Martín, David Conde Caballero, Julián F. Calderón**

**University of Extremadura, Spain**

Poster ICETIC16: El club de los Pitagóricos "Una experiencia de gamificación en el aula basada en los juegos de escape educativos"

**Luis Garrido Ponce, Emilia Rodríguez García, Ángela Hernández Lorenzo, Isabel Queralt Castellanos**

**Government of Extremadura, Spain**

Poster ICETIC17: Diagnóstico de preconcepciones sobre contenidos STEM en el alumnado de 4º y 6º de Educación Primaria

**Milagros Mateos Núñez, Paula Santiago Gutiérrez, Guadalupe Martínez Borreguero, Francisco Luis Naranjo Correa**

**University of Extremadura, Spain**

#### NON-PRESENT PARTICIPATIONS

Development of a Social Networking Platform as a Methodology for Teaching in the Degree of Chemistry

**Ana Maria Diez Pascual, Pilar Garcia Diaz, Rafael Peña Capilla**

**University of Alcalá, Spain**

Design of Simulation Tools for Teaching in Photovoltaic Energy Engineering

**Ana Maria Diez Pascual, Rafael Peña Capilla, Pilar Garcia Diaz**

**University of Alcalá, Spain**

Innovative strategies in the educational field: Analysis of the systematic mapping of literature

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Use of educational resources and academic performance: analysis and comparison for the Degree on Engineering of Industrial Technologies

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Professional formation and identities of online and face-to-face students: Experiences about a doctoral program of educational research in Mexico

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Jumping 'out of the box' into the 'case': a report on the use of case studies in a teacher education programme

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Combining flipped classroom model and educational videos for improving teaching-learning process in thermodynamics and thermal engineering

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Training for Social Responsibility – Control of Workers in Construction Sites

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Environmental awareness through the Learning-Service methodology

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Cooperative and Experiential Learning in Art Postgraduate Studies: an Art Exhibition Curatorial Project as Master's Thesis

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Debates: an useful tool to promote students deeper thinking in stem disciplines

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Conceptions of Students about Creativity and Mathematical creativity: two Cases Studies in Vocational Education

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Contribution of ICT to Improve Learning of People with Special Educational Needs: A Comparative Perspective between public school and private school

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Academic failure in Higher Education: Socio-cultural analysis from the perspectives of students and teachers in Mexico

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Experiences of inclusive teaching of Graphic Expression in the context of Mechanical Engineering

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How to solve the problems of flipped teaching applied to projects

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Taller creativo basado en realidad aumentada para el fortalecimiento de la creatividad mediante el aprendizaje de la metodología Design Thinking

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El rol de la motivación en el desarrollo de competencias transversales

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Método de enseñanza B-learning para el desarrollo del proceso de enseñanza y aprendizaje. Un estudio de casos

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Aprendizaje cooperativo y su percepción en futuros egresados de Administración de Empresas

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El uso del cine como recurso educativo para fomentar el aprendizaje autónomo de los estudiantes de Educación Secundaria Obligatoria en el área de Ciencias Sociales

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Satisfacción del aprendizaje multilingüe de un procedimiento clínico en el Grado de Enfermería

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