



**11TH INTERNATIONAL CONFERENCE OF  
EDUCATION,  
RESEARCH AND  
INNOVATION**

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**CONFERENCE  
PROCEEDINGS**

**SEVILLE (SPAIN)  
12-14 NOVEMBER 2018**



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**Published by**  
IATED Academy  
iated.org

**ICERI2018 Proceedings**  
11th International Conference of Education, Research and Innovation  
November 12th-14th, 2018 — Seville, Spain

**Edited by**  
L. Gómez Chova, A. López Martínez, I. Candel Torres  
IATED Academy

**ISBN: 978-84-09-05948-5**  
**ISSN: 2340-1095**  
**Depósito Legal: V-2884-2018**

Book cover designed by  
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<b>DEVELOPING LEADERSHIP AND TEAMWORK SKILLS IN UNIVERSITY STUDENTS IN AN INQUIRY-BASED LEARNING ENVIRONMENT: THE CASE OF SAUDI ARABIA</b> <i>M. Elgeddawy</i>	1515
<b>DEVELOPING GLOBAL AWARENESS IN UNIVERSITY STUDENTS THROUGH GENERAL EDUCATION CORE CURRICULUM PROGRAM</b> <i>M. Elgeddawy</i>	1523

<b>CLINICALLY RELEVANT ANATOMICAL KNOWLEDGE RETENTION AMONG MEDICAL GRADUANDS: A GLOBAL MEDICAL EDUCATION CONCERN?</b>	1533
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<b>HOW DOES THE USE OF VIRTUAL LABS IN IN-SERVICE SCIENCE TEACHER TRAINING ENHANCE THEIR TECHNOLOGICAL, PEDAGOGICAL AND CONTENT KNOWLEDGE (TPACK) ON THE TOPIC "CHEMICAL REACTIONS"?</b>	1534
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<b>DEVELOPMENT OF COMMUNICATION ARGUMENTS IN Y GENERATION IN THE UNIVERSITY ENVIRONMENT</b>	1535
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<i>E. Smirnova, A. Sotnikov, V. Syuzev, T. Kim</i>	
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<b>APPLICATION MODULE OF A MULTIMEDIA LABORATORY INTENDED TO STRENGTHEN THE COMPETITIVENESS OF UNIVERSITY GRADUATE STUDENTS</b>	1559
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<b>INTERDISCIPLINARY COOPERATION AT UNIVERSITY AND ITS POTENTIAL FOR CREATIVE AND CULTURAL INDUSTRIES IN THE CZECH REPUBLIC</b>	1586
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<b>ANALYSIS OF THE TECHNOLOGY TO DEVELOP A WEB-BASED VIRTUAL LABORATORY AND SELECTION OF ENVIRONMENT</b>	1593
<i>M. Petrova, D. Atanasova</i>	
<b>THE USE OF CAREER COUNSELLING METHODS IN THE PROCESS OF CAREER EDUCATION IN GENERAL EDUCATION SCHOOLS</b>	1602
<i>I. Tandzegolskienė, V. Tūtlys, V. Jurgilė, A. Balčiūnaitienė</i>	
<b>TECHNOLOGIES AND LANGUAGE LEARNING: TOWARDS NEXT GENERATION DIGITAL LEARNING ENVIRONMENTS</b>	1609
<i>P. Panagiotidis</i>	
<b>MODERN LEARNING METHODS USING IN CYBERSECURITY ADULT EDUCATION</b>	1618
<i>A.M. Udroui, A.V. Vevera</i>	
<b>USING A LANGUAGE LOUNGE TO IMPROVE MOTIVATION IN UNIVERSITY ENGLISH CLASSES (IN JAPAN)</b>	1624
<i>A. Brasier, Y. Hidaka, N. Gyulemetov</i>	
<b>3D TECHNOLOGY APPLIED TO VETERINARY ORTHOPAEDIC SURGERY: ANGULAR DEFORMITY OF LONG BONES IN THE DOG</b>	1630
<i>E. de la Morena Garcia, J. Sanz Dueñas, C. Rojo Salvador, I. de Gaspar Y Simon, C. Perez Diaz, J. Rodriguez Quiros</i>	
<b>ATTRACTING YOUTH TO THE OCCUPATIONS IN THE FOOD INDUSTRY, AGRICULTURE AND ENGINEERING: ISSUES FOR POLICY AND PRACTICE</b>	1637
<i>I. Tandzegolskienė, V. Tūtlys, V. Jurgilė, G. Strods, M. Igavens, E. Shevtshenko</i>	
<b>TOWARDS THE INTERNATIONALISATION OF THE CURRICULUM: DIGITISING PEDAGOGY</b>	1644
<i>T. Adekunle, S. Moodley, D. Timm</i>	
<b>CREATION OF A 3D PRINTED PLEURAL DRAINAGE PLACEMENT MODEL</b>	1655
<i>J. Sanz Dueñas, E. de la Morena Garcia, I. de Gaspar y Simon, C. Rojo Salvador, J. Rodriguez Quiros, C. Bernardi Villavicencio, C. Perez Diaz</i>	
<b>DESIGN THINKING APPLIED TO ONLINE HIGHER EDUCATION: THE CASE OF POSTGRADUATE UOC COURSE "EVALUATION CULTURE"</b>	1662
<i>T. Romeu Fontanillas, M.T. Hernández Morlans, G. Rosa Gregori</i>	

<b>ADOLESCENCE, EMOTIONAL AND CREATIVE LEARNING: DIDACTIC PROPOSAL WITH STOP MOTION TECHNIQUE</b>	1669
<i>M.R. Ripoll Lluquet</i>	
<b>FRAMING BLENDED LEARNING, TEACHING AND EDUCATION</b>	1676
<i>K. Goeman, S. Poelmans, V. Van Rompaey</i>	
<b>APPLYING LEAN THINKING TO HEALTHCARE SETTING: HOW TO IMPROVE RADIOLOGY TURNAROUND TIMES FOR EMERGENCY DEPARTMENT</b>	1681
<i>C. Verbano, M. Crema</i>	
<b>UNIVERSITY OF SOUTH AUSTRALIA STUDENT UNION (USASA) ADVOCACY INTERNSHIP PROGRAM: STUDENT PARTNERSHIP IN ACTION</b>	1686
<i>L.F. Gardezabal Penuela, T. Mackay</i>	
<b>A NEW TECHNIQUE FOR AUTOMATIC GENERATION OF SEMANTIC INDEXES IN VIDEO LECTURES</b>	1691
<i>S. Biatel, M. Ronchetti</i>	
<b>LEAN SIX SIGMA: STATE OF THE ART AND FUTURE DEVELOPMENTS IN HEALTHCARE</b>	1697
<i>M. Crema, C. Verbano</i>	
<b>TRIPLE HELIX AND REGIONAL UNIVERSITIES; DOES ONE SIZE FIT ALL?</b>	1705
<i>C. Nuur</i>	
<b>THE RELATIONSHIP BETWEEN SELF-ESTEEM AND SOCIAL COMPETENCES IN PRE-SERVICE TEACHERS</b>	1706
<i>L. Křeménková, S. Dobešová Cakirpaloglu, J. Kvintová</i>	
<b>READING ENTHUSIASM OF PUPILS AT ELEMENTARY SCHOOL FROM THE PERSPECTIVE OF PEDAGOGICAL RESEARCH</b>	1715
<i>S. Babiakova, B. Kasáčová, M. Cabanová</i>	
<b>THE THEORETICAL SCOPES OF SUPPORT FOR READING INTEREST AND ENTHUSIASM IN YOUNGER SCHOOL-AGE LEARNERS</b>	1725
<i>S. Babiakova, L. Šimanová</i>	
<b>SOCIAL COMPETENCES OF UNIVERSITY STUDENTS IN RELATION TO PERSONALITY CHARACTERISTICS AND FORMS OF STUDY</b>	1733
<i>I. Plevová, L. Křeménková, M. Pugnerová</i>	
<b>AUTONOMY AND THE DISABLED ADULT. A FACTOR OF PERSONAL DEVELOPMENT AND A RESOURCE TO A GROWING SOCIETY</b>	1741
<i>V. Friso</i>	
<b>EVALUATING THE APPLICATION OF EDUCATIONAL COACHING FOR THE DEGREE IN CHEMISTRY</b>	1748
<i>S. Fdez-Ortiz de Vallejuelo, A. Gredilla, A. de Diego, J.M. Madariaga</i>	
<b>WIDENING THE PROFESSIONAL COMPETENCES OF STUDENTS BY INCLUDING THEM IN ACADEMIC RESEARCH PROJECTS</b>	1757
<i>M.S. Nikolova, S. Denchev, V. Nikolova, S. Vasileva</i>	
<b>TEACHING CHEMICAL ANALYSIS USING CRITICAL THINKING AND A CONSTRUCTIVIST METHODOLOGY</b>	1761
<i>A. Gredilla, S. Fdez-Ortiz de Vallejuelo, A. de Diego, J.M. Madariaga</i>	
<b>CAREER ANCHORS OF DOCTORAL STUDENTS</b>	1766
<i>J. Jirsáková, L. Herout</i>	
<b>SEARCHING ALGORITHMS AND A COMPARISON METHODOLOGY, USED IN STUDYING ARTIFICIAL INTELLIGENCE</b>	1767
<i>M. Petrova, D. Atanasova</i>	
<b>THE IDENTITY OF YOUNG DIGITAL GAME-BASED LEARNER: A REVIEW OF RECENT RESEARCH</b>	1776
<i>J. Kasperuniene, U. Ilodigwe</i>	
<b>MEMORIZATION TECHNIQUES TO TEACH L2 ENGLISH VOCABULARY TO DYSLEXIC STUDENTS</b>	1781
<i>S. Nocetti</i>	
<b>MODELING THE PREDICTION OF STUDENTS' SUCCESS IN THE CONTEXT OF SMALL UNIVERSITIES</b>	1791
<i>L. Petkovova, D. Hartman</i>	
<b>THE SPECIFICITY OF FORMING THE STUDENTS' HYPERTEXT COMPETENCE IN THE MULTIMEDIA ENVIRONMENT OF THE FOREIGN LANGUAGE NETWORK SEGMENT</b>	1801
<i>H. Bourina, L. Dunaeva</i>	

<b>CLASSROOM QUIZZES WITH SOCRATIVE AS A REVISION AND SELF-ASSESSMENT METHOD IN FINANCE</b>	1806
<i>S. Baixauli-Soler, M. Belda-Ruiz, M.I. Martínez-Serna, J. Yagüe</i>	
<b>THE INCIDENCE OF BURNOUT SYNDROME IN THE TEACHER'S PROFESSION</b>	1813
<i>L. Herout, J. Jirsáková</i>	
<b>MULTISEMIOTIC PRESENTATION AND MULTIMODAL TECHNIQUES FOR ADULTS WITH DEVELOPMENTAL DYSLEXIA LEARNING L2 ENGLISH</b>	1818
<i>S. Nocchetti</i>	
<b>A DYNAMIC-BOOSTER AND ATTENDANCE-TRACKING APP FOR INTERACTIVE CLASSROOM TEACHING</b>	1827
<i>A. Brunete, R. Cedazo</i>	
<b>THE EXPERIENCE WITH COMPUTER-ADAPTIVE-TESTING IN MATHEMATICS</b>	1834
<i>D. Smetanová, P. Chládek, M. Šulista</i>	
<b>AN EVALUATION OF STUDENT ENGAGEMENT AND EXPERIENTIAL LEARNING USING ENTERPRISE APPLICATION TESTING</b>	1841
<i>S. McNamarah, C. DeLisser</i>	
<b>REASONS FOR FAILURE OF UNIVERSITY STUDENTS - A PILOT STUDY INTEGRATING TRADITIONAL SURVEYS AND INTERVIEWS</b>	1847
<i>L. Petkovova, J. Stribrska, J. Brhelova</i>	
<b>IMPLEMENTATION OF OBJECTIVE STRUCTURED PRACTICAL EXAMINATION FOR THE ASSESSMENT OF PRACTICAL SKILLS IN LABORATORY SESSIONS</b>	1854
<i>B. Sáez, A. Flores, M.P. Ros, M.M. Caja, M. Bailén</i>	
<b>INTRODUCING HIGH-SCHOOL STUDENTS TO CONTEMPORARY MATHEMATICS THROUGH MATHEMATICS-NEWS-SNAPSHOTS; NETWORKING WITH MATHEMATICS EDUCATORS ABOUT MEETING THE CHALLENGE</b>	1862
<i>N. Movshovitz-Hadar, R. Segal, K. Shir, A. Shriki, B. Silverman, V. Zigerson</i>	
<b>FURTHER EDUCATION OF PEDAGOGICAL STAFF IN THE CZECH REPUBLIC</b>	1866
<i>L. Herout, K. Tomšíková</i>	
<b>BEMYPPLACE, A MEDIATION LEARNING PROCESS IN THE FIELD OF DESIGN</b>	1872
<i>B. Di Prete, V.M. Iannilli, A. Rebaglio, A. Spagnoli</i>	
<b>DEVELOPMENT OF PUPILS' SCIENCE AND TECHNICAL THINKING – CASE STUDY</b>	1880
<i>S. Hubalovsky, M. Hubalovska, P. Krejci</i>	
<b>REINFORCEMENT OF TEACHER-STUDENT-KNOWLEDGE RELATIONSHIPS THROUGH THE USE OF LOW-COST WEB TOOLS AND THE USE OF SOCIAL NETWORKS AS A SUPPORT FOR COLLECTIVE INTELLIGENCE</b>	1887
<i>M.A. Muñoz-García, A. Moya, G. Moreda, F. Ruiz Mazarrón, L. Lleó, S. Moreno, L. Rodríguez Sinobas, B. Diezma Iglesias, S. Romero-Muñoz, C. Martínez Varela</i>	
<b>PREFERENCES OF THE STUDENTS OF POST-SECONDARY HIGH SCHOOLS WITH ECONOMIC PROFILES AND THE QUALITY OF FINANCIAL ACCOUNTING TEACHING</b>	1893
<i>E. Spigarska, G. Bucior, J. Kujawski</i>	
<b>FLIPPED LEARNING IN A HIGH SCHOOL IN ROME. A CASE STUDY</b>	1900
<i>F. Bordini</i>	
<b>THE ASSESSMENT OF AN ONLINE COLLABORATIVE PROJECT BASED LEARNING</b>	1909
<i>M. Güitert, T. Romeu Fontanillas, M. Romero</i>	
<b>ENGAGING MUSIC STUDENTS THROUGH MINECRAFT</b>	1916
<i>D. Abrahams</i>	
<b>TEACHING ADULTS THROUGH THE ARTS USING MEZIROU'S TRANSFORMATIVE LEARNING THEORY</b>	1922
<i>G. Mega</i>	
<b>EXPERIENTIAL LEARNING THROUGH SCALE STRUCTURAL MODELS</b>	1928
<i>S. González-Rodrigo, B. González-Rodrigo, F. Magdalena Layos, G. García-López de la Osa</i>	
<b>LEARNING CURVES: INSIGHTS AND CONFLICTS TOWARDS MORE EFFECTIVE LEARNING</b>	1935
<i>R. Aylward</i>	
<b>FROM THEORETICAL KNOWLEDGE TO REFLECTION ABOUT DIGITAL MEDIA: A STUDY ABOUT EPISTEMIC AWARENESS OF IN-SERVICE TEACHERS</b>	1944
<i>G. Marci-Boehncke, T. Vogel</i>	
<b>EDUCATIONAL KITS IN THE CLASSROOM: LEARN BY TESTING</b>	1951
<i>S. González-Rodrigo, G. García-López de la Osa, F. Magdalena Layos, B. González-Rodrigo</i>	

<b>A MULTIDISCIPLINARY APPROACH TO DESIGN EDUCATION</b> <i>E. Chiodo, M. Aquila, D. Gallo</i>	1955
<b>CHANGE FROM WITHIN: USING DESIGN THINKING TO BUILD A FUTURE PROOF LEARNING ENVIRONMENT BOTTOM-UP</b> <i>M. Ghyselincx, A. Demol, J. Van Landeghem</i>	1963
<b>EXPERIENCE DESIGN: STORYTELLING AND VISUAL NARRATIVES</b> <i>E. Chiodo, M. Aquila, D. Gallo</i>	1971
<b>THE PROCESS OF ACQUIRING QUALITY CERTIFICATION MARK IN THE FIELD OF HUMAN RESOURCES "HR EXCELLENCE IN RESEARCH AWARD" AT THE GLOBAL CHANGE RESEARCH INSTITUTE CAS – CZECHGLOBE</b> <i>H. Šprtová, M. Šprtová</i>	1979
<b>DISCUSSING DIGITAL MEDIA AND OPENING EYES FOR CONSTRUCTIVIST LEARNING CHANCES: A QUALITATIVE-EMPIRICAL STUDY ABOUT PRE-SERVICE TEACHERS BELIEFS AND A META-COGNITIVE REFLECTION TOOL FOR EDUCATION</b> <i>G. Marci-Boehncke, M. Delere</i>	1980
<b>DESIGN AND IMPLEMENTATION OF AN ENVIRONMENTAL EDUCATIONAL PROGRAM "ENVIRONMENTAL FAIRY TALES" FOR THE PUPILS OF PRIMARY AND LOWER-SECONDARY SCHOOLS AND THE EVALUATION OF ITS EFFECTIVITY</b> <i>V. Pavlátová</i>	1986
<b>DESIGN, IMPLEMENTATION AND EVALUATION OF AN ENVIRONMENTAL EDUCATIONAL BOARD GAME "DON'T GIVE UP, PLANET!" FOR PRIMARY AND LOWER-SECONDARY SCHOOL PUPILS</b> <i>V. Pavlátová</i>	1993
<b>SCUOLA&amp;SPORT PROJECT: FOR AN ETHIC OF EDUCATIONAL INNOVATION</b> <i>S. Greco, F. Benedetti</i>	2001
<b>TEACHERS' BELIEFS IN MEDIA AND WHETHER THEY CAN BE MODIFIED: A COMPARATIVE STUDY, EXAMINING FIRST YEARS AND ADVANCED STUDENTS FROM DIFFERENT FORMS OF EDUCATION</b> <i>M. Delere, M. Rath</i>	2010
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**About this paper**

**Published in:**  
ICERI2018 Proceedings

**Pages:** 5738-5747  
**Publication year:** 2018  
**ISBN:** 978-84-09-05948-5  
**ISSN:** 2340-1095

**Conference name:**  
11th International Conference of  
Education, Research and  
Innovation

**Dates:** 12th-14th November,  
2018

**Location:** Seville, SPAIN

**Citation formats:**

[BibTeX](#) - [RIS](#) - [Plain text](#)

 [Full paper](#)

## EXPLORING DATA AND ART BOUNDARIES. AN APPROACH TO CREATIVE SYSTEMS USING BIOSENSORS

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### Abstract

In this paper we show the experimental results obtained in the constructive process of the research project "Big Data. Organizational Aspects (Open Data) and Development of New Creative Abilities (Visual Cartographies, Geolocation and Wearables)", funded by the Complutense University of Madrid and the Santander Group during 2017-2018. The theoretical objective of the proposal is to research the situation of a set of artistic practices that are based on the use of Big Data. The project collects information on a series of systems and artefacts capable of transmitting emotions, experiences and meaning by implementing an open epistemological framework where art, science and technology coexist productively.

To define the experiential part of the project, we use data associated with the physiological and relational information provided by living organisms. Our benchmark is the organized matter that configures the human body on the physicality and functional processes that define its variable behaviour over time. To register this activity we incorporate biosensors to our system. The information they provide is key in order to define the proposal: the location of the data provenance, the computer system's capacity to process and visualize them in real time, and the author's data interpretation to develop aesthetic-functional systems and formalize living interactive spaces.

In this context, we propose three conceptual and operative models for incorporating Big Data into creative processes. In the first one we work with the visualizations provided by the applications programming interfaces (APIs) used in collecting body data. We analyse the signal visual representations and construe the results taking into account the ranges and sampling methodologies proposed in each case.

In the second one we focus on the user interface and put forward human-machine interaction models. For this purpose we choose the appropriate biosensors for each situation and provide them with the specific degree of interactivity, connectivity and functionality. Our goal is to record information on ephemeral changes that spontaneously occur in the person due to their physical, emotional and circumstantial context: muscle activity, breathing and facial expression (EMG, Electromyography); body temperature (RTD, Resistance Temperature Detector); postural movement (accelerometer), skin perspiration (GSR, Galvanic Skin Response), heart rhythm (EKG, Electrocardiography), brain activity (EEG, Electroencephalography) and eye movement (Eye Tracking).

In the third model we define the object / space physical aspect where the aesthetic experience takes place and we establish the terms and conceptual processes used to constitute its formal structure by data provided by biosensors.

Using a learning-by-doing methodology (John Dewey, 1916), this research links the data world and the space of intuition, allowing us to propose creative strategies based on an integrative and relational theoretical-practical perspective.

**Keywords:** Big Data, Biosensors, Complexity, Creativity, Systems thinking.