

Presentation of the GRIAL research group and its main research lines and projects on March 2016

Dr. Francisco José García Peñalvo

research GRoup in InterAction & eLearning (GRIAL)

Research Institute for Educational Sciences

University of Salamanca

fgarcia@usal.es

<http://grial.usal.es>

<http://twitter.com/frangp>

Abstract

Presentation of the GRIAL research group and its main research lines and projects in the Intelligent System Master Degree of University of Salamanca on March 7th, 2016.

Keywords

GRIAL; Research Group; Research lines; Research projects; TRAILER; MIH; VALS; eLearning; TACCLE

1. GRIAL research group

The research GRoup in InterAction and eLearning (GRIAL) [1] is a recognized research group of the University of Salamanca from 2006. It was awarded with Excellence distinction by Castile and Leon Regional Government (GR-47) from 2007 till February of 2016. Since 2015, the regional government of Castile and Leon substituted the Excellence distinction by the Consolidate Research Unit mention, GRIAL was recognized as one of this high level research units in July 2015 (UIC 081).

It is an interdisciplinary group, composed of permanent members from different fields of knowledge, such as, software engineering, computer science, education, information sciences, social sciences, etc.

The activity of the GRIAL research group is oriented to:

- Scientific Research and R&D/R&D&i on its own initiative, in partnership or third party claim.
- Training including on-demand training.
- Wide range of on-demand services oriented to companies or institutions.
- Collaboration with companies and institutions in research and development projects.

2. Research lines

The main research lines of the group are:

- Interactive learning systems (interaction paradigms, user interfaces, collaborative systems, usability, visualization, visual analytics) [2-12].

- Technologies for learning (LMS/LCMS platforms, eLearning ecosystems, LO, authoring tools, educational software, standards and specifications for eLearning, Learning Analytics, MOOC, mLearning, PLE) [13-43].
- Software engineering, web engineering and software architecture (Semantic web, ontologies, software quality, Knowledge Management Systems, Service-oriented architecture, MDA, Web Services) [44-59].
- eLearning methodologies (Online tutoring, learning communities and community management, CSCL) [60-69].
- Quality and assessment in education (Evaluating educational programs, evaluation and training processes in virtual environments, educational and vocational guidance, educational measurement) [70-78].
- Communication theory (Interpersonal communication, rhetoric, linguistic interaction, didactic communication, language theory) [79].
- Strategic management of knowledge and technology [80-92].
- Digital Humanities [93-96].
- ICT and educational innovation [97-106].
- Information science (Repositories, open knowledge, digital libraries) [107-111].

3. Highlighted research projects

Some highlighted research projects of the group:

- eLearning platform based on knowledge management, learning objects repositories and adaptive systems (KEOPS) funded by Ministry of Education and Culture. 2006-2008 [5, 6, 112-115].
- Assessment model and development of key competences in ESO: ICT, reading and scholar coexistence (E-TELECO). (SEJ2006-10700). 2006-2009.
- Assessment of key competences and training for secondary education teachers: ICT, ALFIN y scholar coexistence (EF-TALCO) (EDU2009-08753). 2009-2012.
- Adaptive systems and human interaction: Designing a digital portfolio for eLearning environments, of the Castile and Leon. (SA056A07). 2007-2009.
- eLearning without barriers: New paradigms of communication services and modes of interaction for online training (GR47). 2008.
- oiPLE: Entorno abierto, integrado y personalizado para el aprendizaje. Hacia una nueva concepción de los procesos de aprendizaje basados en tecnología. TIN2010-21695-C02. Ministerio de Ciencia e Innovación. 2011-2014 [56, 116-120].
- Layers4Moodle (TSI-020302-2009-35) funded by Ministry of Industry, Tourism and Trade Sub-Programme Avanza I+D. 2009-2011.
- Multicultural Interdisciplinary Handbook (MIH), funded by LLP Sub-Programme COMENIUS. 2009-2011. <http://mihproject.eu> [121-124].
- European Language Virtual Network (ELVIN) funded by LLP Transversal Programme KA2 Languages Multilateral Projects. 2009-2011. <http://myelvin.usal.es> [125].
- Teaching and eLearning Advances in European Mobility Space (TALARIA) funded by LLP, subprogramme Leonardo da Vinci – Mobility VETPRO. 2011-2012. <http://talaria-project.eu>.
- Entrepreneurship Education for European Students (E3S), funded by LLP Sub-Programme Erasmus. 2011-2014 [126].

- Tagging, Recognition and Acknowledgment of Informal Learning Experiences (TRAILER) funded by LLP Sub-Programme ICT (KA 3). 2012-2014. <http://trailerproject.eu> [47, 127-134].
- European history crossroads as pathways to intercultural and media education (EHISTO) funded by LLP Sub-Programme COMENIUS. 2012-2014. <http://european-crossroads.eu> [135].
- Intercultural Education through Religious Studies (IERS) funded by LLP Sub-Programme COMENIUS. 2013-2015. <http://iers.unive.it> [136].
- Intercultural Mentoring tools to support migrant integration at school (INTO) funded by LLP Sub-Programme COMENIUS. 2013-2015. <http://www.interculturalmentoring.eu> [137-139].
- Virtual Alliances for Learning Society (VALS) funded by LLP Sub-Programme Erasmus - Knowledge Alliances. 2013-2015. <http://virtualalliances.eu> [140-148].
- TACCLE3 - Coding funded by European Union. Erasmus + KA2. 2015-2017. <http://www.taccle3.eu/>.

Link to the presentation

<http://www.slideshare.net/grialusal/research-group-in-interaction-and-elearning-grial>

References

- [1] F. J. García-Peñalvo, M. J. Rodríguez-Conde, A. M. Seoane-Pardo, M. Á. Conde-González, V. Zangrando, and A. García-Holgado, "GRIAL (GRupo de investigación en InterAcción y eLearning), USAL," *IE Comunicaciones. Revista Iberoamericana de Informática Educativa*, pp. 85-94, 2012.
- [2] A. Berlanga and F. J. García-Peñalvo, "Learning Technology Specifications: Semantic Objects for Adaptive Learning Environments," *International Journal of Learning Technology*, vol. 1, pp. 458-472, 2005.
- [3] A. J. Berlanga and F. J. García-Peñalvo, "IMS LD reusable elements for adaptive learning designs," *Journal of Interactive Media in Education*, vol. 11, 2005.
- [4] A. J. Berlanga and F. J. García-Peñalvo, "Learning Design in Adaptive Educational Hypermedia Systems," *Journal of Universal Computer Science*, vol. 14, pp. 3627-3647, 2008.
- [5] A. J. Berlanga, F. J. García-Peñalvo, and J. Carabias, "Authoring adaptive learning designs using IMS LD," in *Adaptive Hypermedia and Adaptive Web-Based Systems, Proceedings*. vol. 4018, V. Wade, H. Ashman, and B. Smyth, Eds., ed Berlin: Springer Verlag, 2006, pp. 31-40.
- [6] A. Berlanga and F. J. García-Peñalvo, "An open model to define adaptive educational hypermedia systems based on learning technology specifications," in *Proceedings of the 15th International Workshop on Database and Expert Systems Applications, 2004 (Zaragoza, Spain, 30 August – 3 September 2004)*, ed USA: IEEE Computer Society Press, 2004, pp. 198-202.
- [7] J. García, F. J. García-Peñalvo, R. Therón, and P. Ordóñez de Pablos, "Usability Evaluation of a Visual Modelling Tool for OWL Ontologies," *Journal of Universal Computer Science*, vol. 17, pp. 1299-1313, 2011.
- [8] A. González-Torres, F. J. García-Peñalvo, and R. Therón, "How Evolutionary Visual Software Analytics Supports Knowledge Discovery," *Journal of Information Science and Engineering*, vol. 29, pp. 17-34, 2013.
- [9] A. González-Torres, F. J. García-Peñalvo, and R. Therón, "Human-computer interaction in evolutionary visual software analytics," *Computers in Human Behavior*, vol. 29, pp. 486-495, Mar 2013.
- [10] F. J. García-Peñalvo, P. Ordóñez de Pablos, J. García, and R. Therón, "Using OWL-VisMod through a decision-making process for reusing OWL ontologies," *Behaviour & Information Technology*, vol. 33, pp. 426-442, 2014.
- [11] F. J. García-Peñalvo, R. Colomo-Palacios, J. García, and R. Therón, "Towards an ontology modeling tool. A validation in software engineering scenarios," *Expert Systems with Applications*, vol. 39, pp. 11468-11478, 2012.
- [12] F. J. García-Peñalvo, R. Colomo-Palacios, and J. Y. J. Hsu, "Discovering Knowledge through Highly Interactive Information Based Systems Foreword," *Journal of Information Science and Engineering*, vol. 29, 2013.
- [13] M. Alier Forment, M. J. Casany Guerrero, M. Á. Conde González, F. J. García-Peñalvo, and C. Severance, "Interoperability for LMS: the missing piece to become the common place for e-learning innovation," *International Journal of Knowledge and Learning (IJKL)*, vol. 6, pp. 130-141, 2010.

- [14] M. Alier Forment, M. J. Casany, E. Mayol, J. Piguillem, N. Galanis, F. J. García-Peñalvo, *et al.*, "Docs4Learning: Getting Google Docs to Work within the LMS with IMS BLTI," *Journal of Universal Computer Science*, vol. 18, pp. 1483-1500, 2012.
- [15] F. J. García-Peñalvo and J. García Carrasco, "Educational hypermedia resources facilitator," *Computers & Education*, vol. 44, pp. 301-325, Apr 2005.
- [16] M. J. Casany, M. Alier, E. Mayol, J. Piguillem, N. Galanis, F. J. García-Peñalvo, *et al.*, "Moodbile: A Framework to Integrate m-Learning Applications with the LMS," *Journal of Research and Practice in Information Technology (JRPIT)*, vol. 44, pp. 129-149, 2012.
- [17] J. C. Sánchez Prieto, S. Olmos Migueláñez, and F. J. García-Peñalvo, "Understanding mobile learning: devices, pedagogical implications and research lines," *Education in the Knowledge Society*, vol. 15, pp. 20-42, 2014.
- [18] J. C. Sánchez Prieto, S. Olmos Migueláñez, and F. J. García-Peñalvo, "Informal Tools in Formal Contexts: Development of a Model to Assess the Acceptance of Mobile Technologies among Teachers," *Computers in Human Behavior*, vol. 55A, pp. 519-528, 2016.
- [19] D. A. Gómez-Aguilar, F. J. García-Peñalvo, and R. Therón, "Analítica Visual en eLearning," *El Profesional de la Información*, vol. 23, pp. 236-245, 2014.
- [20] D. A. Gómez-Aguilar, A. Hernández-García, F. J. García-Peñalvo, and R. Therón, "Tap into visual analysis of customization of grouping of activities in eLearning," *Computers in Human Behavior*, vol. 47, pp. 60-67, 2015.
- [21] D. A. Gómez-Aguilar, R. Therón, and F. J. García-Peñalvo, "Understanding educational relationships in Moodle with ViMoodle," in *Proceedings of the Eighth IEEE International Conference on Advanced Learning Technologies, 2008. ICALT '08. Santander, Cantabria, Spain, 1-5 July 2008*, P. Díaz, A. Ignacio, and E. Mora, Eds., ed USA: IEEE, 2008, pp. 954-956.
- [22] D. A. Gómez-Aguilar, R. Therón, and F. J. García-Peñalvo, "Semantic Spiral Timelines Used as Support for e-Learning," *Journal of Universal Computer Science*, vol. 15, pp. 1526-1545, 2009.
- [23] Á. Fidalgo Blanco, F. J. García-Peñalvo, and M. L. Sein-Echaluce Laclea, "A methodology proposal for developing adaptive cMOOC," in *Proceedings of the First International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'13)*, F. J. García-Peñalvo, Ed., ed New York, NY, USA: ACM, 2013, pp. 553-558.
- [24] Á. Fidalgo Blanco, M. L. Sein-Echaluce Laclea, O. Borrás Gené, and F. J. García-Peñalvo, "Educación en abierto: Integración de un MOOC con una asignatura académica," *Education in the Knowledge Society (formerly Revista Teoría de la Educación: Educación y Cultura en la Sociedad de la Información)*, vol. 15, pp. 233-255, 2014.
- [25] Á. Fidalgo Blanco, M. L. Sein-Echaluce Laclea, and F. J. García-Peñalvo, "MOOC cooperativo. Una integración entre cMOOC y xMOOC," in *Actas del II Congreso Internacional sobre Aprendizaje, Innovación y Competitividad (CINAIC)*, Á. Fidalgo Blanco and M. L. Sein-Echaluce Laclea, Eds., ed Madrid, Spain: Fundación General de la Universidad Politécnica de Madrid, 2013, pp. 481-486.
- [26] Á. Fidalgo Blanco, M. L. Sein-Echaluce Laclea, and F. J. García-Peñalvo, "Methodological Approach and Technological Framework to break the current limitations of MOOC model," *Journal of Universal Computer Science*, vol. 21, pp. 712-734, 2015.
- [27] F. J. García-Peñalvo, "Massive Open Online Courses as Data Sources for Making Decisions in Learning Processes," *Journal of Information Technology Research*, vol. 8, pp. iv-vii, 2015.
- [28] A. García-Holgado, J. Cruz-Benito, and F. J. García-Peñalvo, "Analysis of Knowledge Management Experiences in Spanish Public Administration," in *Proceedings of the Third International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'15) (Porto, Portugal, October 7-9, 2015)* G. R. Alves and M. C. Felgueiras, Eds., ed New York, NY, USA: ACM, 2015, pp. 189-193.
- [29] A. García-Holgado and F. J. García-Peñalvo, "The evolution of the technological ecosystems: An architectural proposal to enhancing learning processes," in *Proceedings of the First International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'13) (Salamanca, Spain, November 14-15, 2013)*, F. J. García-Peñalvo, Ed., ed New York, NY, USA: ACM, 2013, pp. 565-571.
- [30] A. García-Holgado and F. J. García-Peñalvo, "Architectural pattern for the definition of eLearning ecosystems based on Open Source developments," in *Proceedings of 2014 International Symposium on Computers in Education (SIIE), Logrono, La Rioja, Spain, 12-14 Nov. 2014*, J. L. Sierra-Rodríguez, J. M. Doderó-Beardo, and D. Burgos, Eds., ed USA: Institute of Electrical and Electronics Engineers, 2014, pp. 93-98.
- [31] A. García-Holgado, F. J. García-Peñalvo, and M. J. Rodríguez-Conde, "Definition of a Technological Ecosystem for Scientific Knowledge Management in a PhD Programme," in *Proceedings of the Third International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'15) (Porto, Portugal, October 7-9, 2015)*, G. R. Alves and M. C. Felgueiras, Eds., ed New York, NY, USA: ACM, 2015, pp. 695-700.
- [32] F. J. García-Peñalvo, Á. Hernández-García, M. Á. Conde-González, Á. Fidalgo-Blanco, M. L. Sein-Echaluce Laclea, M. Alier-Forment, *et al.*, "Learning services-based technological ecosystems," in *Proceedings of the Third International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'15) (Porto, Portugal, October 7-9, 2015)*, G. R. Alves and M. C. Felgueiras, Eds., ed New York, USA: ACM, 2015, pp. 467-472.
- [33] M. Á. Conde, F. J. García-Peñalvo, M. J. Rodríguez-Conde, M. Alier, and A. García-Holgado, "Perceived openness of Learning Management Systems by students and teachers in education and technology courses," *Computers in Human Behavior*, vol. 31, pp. 517-526, 2014.
- [34] E. M. Morales, D. Gómez-Aguilar, and F. J. García-Peñalvo, "HEODAR: Herramienta para la Evaluación de Objetos Didácticos de Aprendizaje Reutilizables," in *Actas del X Simposio Internacional de Informática*

- Educativa - SIIE'08* J. Á. Velázquez-Iturbide, F. J. García-Peñalvo, and A. B. Gil, Eds., ed Salamanca, España: Ediciones Universidad de Salamanca, 2008.
- [35] C. Muñoz, M. Á. Conde, and F. J. García-Peñalvo, "Moodle HEODAR implementation and its implantation in an academic context," *International Journal of Technology Enhanced Learning (IJTEL)*, vol. 2, pp. 241-255, 2010.
- [36] C. Muñoz, F. J. García-Peñalvo, E. M. Morales, M. Á. Conde, and A. M. Seoane, "Improving Learning Object Quality: Moodle HEODAR Implementation," *International Journal of Distance Education Technologies*, vol. 10, pp. 1-16, 2012.
- [37] E. Morales, F. J. García-Peñalvo, Á. Barrón, A. J. Berlanga, and C. López, "Propuesta de Evaluación de Objetos de Aprendizaje," in *Actas del II Simposio Pluridisciplinar sobre Diseño, Evaluación y Descripción de Contenidos Educativos Reutilizables, SPDECE'05 (Barcelona, 19, 20 y 21 de Octubre de 2005)*, ed, 2005.
- [38] F. J. García-Peñalvo and M. Á. Conde, "The impact of a mobile Personal Learning Environment in different educational contexts," *Universal Access in the Information Society*, vol. 14, pp. 375-387, 2015.
- [39] P. R. Humanante Ramos, F. J. García-Peñalvo, and M. Á. Conde González, "Towards mobile personal learning environments (MPLE) in higher education," in *Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM 2014) (Salamanca, Spain, October 1-3, 2014)*, F. J. García-Peñalvo, Ed., ed New York, NY, USA: ACM, 2014, pp. 677-681.
- [40] P. R. Humanante Ramos, F. J. García-Peñalvo, and M. Á. Conde-González, "Personal Learning Environments and Online Classrooms: An Experience with University Students," *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE RITA)*, vol. 10, pp. 26-32, 2015.
- [41] P. R. Humante-Ramos, F. J. García-Peñalvo, and M. Á. Conde-González, "Mobile personal learning environments: conceptualization and structure," in *Proceedings of the Third International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'15) (Porto, Portugal, October 7-9, 2015)*, G. R. Alves and M. C. Felgueiras, Eds., ed New York, USA: ACM, 2015, pp. 117-123.
- [42] M. Á. Conde, F. J. García-Peñalvo, M. J. Rodríguez-Conde, M. Alier, M. J. Casany, and J. Piguillem, "An evolving Learning Management System for new educational environments using 2.0 tools," *Interactive Learning Environments*, vol. 22, pp. 188-204, 2014.
- [43] F. J. García-Peñalvo and M. Alier, "Learning management system: evolving from silos to structures: Evolving from silos to structures," *Interactive Learning Environments*, vol. 22, pp. 143-145, 2014.
- [44] F. J. García-Peñalvo, R. Colomo-Palacios, P. Soto-Acosta, I. Martínez-Conesa, and E. Serradell-López, "SemSEDoc: Use of semantic technologies in the use of document repositories of software development projects," *Information Research-an International Electronic Journal*, vol. 16, p. paper 504, Dec 2011.
- [45] Á. Fidalgo-Blanco, M. L. Sein-Echaluce, and F. J. García-Peñalvo, "Knowledge Spirals in Higher Education Teaching Innovation," *International Journal of Knowledge Management*, vol. 10, pp. 16-37, 2014.
- [46] Á. Fidalgo-Blanco, M. L. Sein-Echaluce, and F. J. García-Peñalvo, "Epistemological and ontological spirals: From individual experience in educational innovation to the organisational knowledge in the university sector," *Program: Electronic library and information systems*, vol. 49, pp. 266-288, 2015.
- [47] F. J. García-Peñalvo, M. Á. Conde, M. Johnson, and M. Alier, "Knowledge Co-Creation Process Based on Informal Learning Competences Tagging and Recognition," *International Journal of Human Capital and Information Technology Professionals (IJHCITP)*, vol. 4, pp. 18-30, 2013.
- [48] F. J. García-Peñalvo, J. Cruz-Benito, O. Borrás-Gené, and Á. Fidalgo Blanco, "Evolution of the Conversation and Knowledge Acquisition in Social Networks related to a MOOC Course.," in *Learning and Collaboration Technologies. Second International Conference, LCT 2015, Held as Part of HCI International 2015, Los Angeles, CA, USA, August 2-7, 2015, Proceedings*, P. Zaphiris and I. Ioannou, Eds., ed Switzerland: Springer International Publishing, 2015, pp. 470-481.
- [49] F. J. García-Peñalvo, J. García, and R. Therón, "Analysis of the OWL ontologies: A survey," *Scientific Research and Essays*, vol. 6, pp. 4318-4329, 2011.
- [50] F. J. García-Peñalvo, M. A. Conde, M. Alier, and M. J. Casany, "Opening Learning Management Systems to Personal Learning Environments," *Journal of Universal Computer Science*, vol. 17, pp. 1222-1240, 2011.
- [51] M. J. Casany, M. Alier, M. Á. Conde, and F. J. García-Peñalvo, "SOA initiatives for eLearning. A Moodle case," in *23rd International Conference on Advanced Information Networking and Applications, AINA 2009, Workshops Proceedings. The International Symposium on Mining and Web (MAW 2009)*, ed Los Alamitos, California, USA: IEEE Computer Society, 2009, pp. 750-755.
- [52] M. Á. Conde González, F. J. García-Peñalvo, M. J. Casany Guerrero, and M. Alier Forment, "Back and Forth: From the LMS to the Mobile Device. A SOA Approach," in *Proceedings of the IADIS International Conference Mobile Learning 2009 (Barcelona, Spain, February 26-28, 2009)*, I. Arnedillo Sánchez and P. Isaías, Eds., ed Portugal: IADIS Press, 2009, pp. 114-120.
- [53] M. Á. Conde, F. J. García-Peñalvo, M. J. Casany, and M. Alier, "Adapting LMS architecture to the SOA: an Architectural Approach," in *Proceedings of the Fourth International Conference on Internet and Web Applications and Services – ICIW 2009 (Venice/Mestre, Italy, 24-28 May 2009)*, H. Sasaki, G. O. Bellot, M. Ehmman, and O. Dini, Eds., ed Los Alamitos, California, USA: IEEE Computer Society, 2009, pp. 322-327.
- [54] E. M. Morales, A. B. Gil, and F. J. García-Peñalvo, "Arquitectura para la Recuperación de Objetos de Aprendizaje de Calidad en Repositorios Distribuidos," in *Actas del 5º Taller en Sistemas Hipermedia Colaborativos y Adaptativos, SHCA 2007*. vol. 1, F. Gutiérrez Vela and P. Paderewski Rodriguez, Eds., ed Zaragoza, España, 2007, pp. 31-38.

- [55] R. Colomo-Palacios, C. Casado-Lumbreras, P. Soto-Acosta, F. J. García-Peñalvo, and E. Tovar-Caro, "Project managers in global software development teams: A study of the effects on productivity and performance," *Software Quality Journal*, vol. 22, pp. 3-19, 2014.
- [56] M. Á. Conde, D. A. Gómez, A. D. de Dios, and F. J. García-Peñalvo, "Moodle 2.0 Web Services Layer and Its New Application Contexts. First International Conference, TECH-EDUCATION 2010, Athens, Greece, May 19-21, 2010. Proceedings," in *Technology Enhanced Learning: Quality of Teaching and Educational Reform*. vol. 73, M. D. Lytras, P. O. DePablos, D. Avison, J. Sipior, Q. Jin, W. Leal, *et al.*, Eds., ed Berlin: Springer, 2010, pp. 110-116.
- [57] J. Cruz-Benito, O. Borrás-Gené, F. J. García-Peñalvo, Á. Fidalgo-Blanco, and R. Therón, "Extending MOOC ecosystems using web services and software architectures.," in *Proceedings of the XVI International Conference on Human Computer Interaction. Vilanova i la Geltrú, Spain — September 07 - 09, 2015*, ed New York, USA: ACM, 2015, p. Art. 52.
- [58] J. Piguillem, M. Alier, M. J. Casany, E. Mayol, N. Galanis, F. J. García-Peñalvo, *et al.*, "Moodbile: A Moodle web services extension for mobile applications," in *Proceedings of the 1st Moodle Research Conference (Heraklion, Crete, Greece, September, 14-15, 2012)*, S. Retalis and M. Dougiamas, Eds., ed, 2012, pp. 148-156.
- [59] A. González-Torres, F. J. García-Peñalvo, R. Therón-Sánchez, and R. Colomo-Palacios, "Knowledge discovery in software teams by means of evolutionary visual software analytics," *Science of Computer Programming*, vol. 121, pp. 55-74, 2016.
- [60] F. J. García-Peñalvo, "Estado actual de los sistemas E-Learning," *Education in the Knowledge Society*, vol. 6, 2005.
- [61] F. J. García-Peñalvo, *Advances in E-Learning: Experiences and Methodologies*. Hershey, PA, USA: Information Science Reference (formerly Idea Group Reference), 2008.
- [62] A. M. Seoane-Pardo and F. J. García-Peñalvo, "Los orígenes del tutor: Fundamentos filosóficos y epistemológicos de la monitorización para su aplicación a contextos de e-learning," *Education in the Knowledge Society*, vol. 8, pp. 9-30, 2007.
- [63] A. M. Seoane-Pardo and F. J. García-Peñalvo, "Philosophical and Epistemological Basis for Building a Quality Online Training Methodology," in *Advances in E-Learning: Experiences and Methodologies*, F. J. García-Peñalvo, Ed., ed Hershey, PA, USA: Information Science Reference 2008, pp. 46-60.
- [64] F. J. García-Peñalvo and A. M. Seoane-Pardo, "Una revisión actualizada del concepto de eLearning. Décimo Aniversario," *Education in the Knowledge Society*, vol. 16, pp. 119-144, 2015.
- [65] F. J. García-Peñalvo and A. M. Seoane-Pardo, *Online Tutor 2.0: Methodologies and Case Studies for Successful Learning*. Hershey, PA, USA: IGI Global, 2014.
- [66] A. M. Seoane Pardo and F. J. García-Peñalvo, "Pedagogical Patterns and Online Teaching," in *Online Tutor 2.0: Methodologies and Case Studies for Successful Learning*, F. J. García-Peñalvo and A. M. Seoane Pardo, Eds., ed Hershey, PA: IGI Global, 2014, pp. 298-316.
- [67] A. M. Seoane Pardo and F. J. García-Peñalvo, "Patrones pedagógicos y docencia en red," in *Formación en Red: Aprender con Tecnologías Digitales*, J. M. Jerónimo Montes, Ed., ed México: Universidad Nacional Autónoma de México. Facultad de Estudios Superiores Zaragoza, 2014, pp. 30-47.
- [68] A. M. Seoane-Pardo, "Formalización de un modelo de formación online basado en el factor humano y la presencia docente mediante un lenguaje de patrón," PhD Dissertation, Programa de Doctorado en Formación en la Sociedad del Conocimiento. Instituto Universitario en Ciencias de la Educación, Universidad de Salamanca, Salamanca, Spain, 2014.
- [69] A. M. Seoane-Pardo and F. J. García-Peñalvo, "Online Tutoring and Mentoring," in *Encyclopedia of Networked and Virtual Organizations*. vol. II, G. D. Putnik and M. M. Cunha, Eds., ed Hershey, PA, USA: Information Science Reference, 2008, pp. 1120-1127.
- [70] M. J. Rodríguez-Conde, F. Martínez-Abad, and S. Olmos-Migueláñez, "Assessment of information skills in secondary education: A causal model," *Cultura y Educación*, vol. 25, pp. 361-373, 2013.
- [71] M. J. Rodríguez-Conde, S. Olmos-Migueláñez, B. García-Riaza, A. B. González-Rogado, and F. J. García-Peñalvo, "Students' Active Role on the Assessment of Learning Results in Blended-Learning Environments in Engineering in Spain," in *Information Systems, E-learning, and Knowledge Management Research. 4th World Summit on the Knowledge Society, WSKS 2011, Mykonos, Greece, September 21-23, 2011. Revised Selected Papers (Mykonos, Greece, 21-23 September 2011)*, M. D. Lytras, D. Ruan, R. Tennyson, O. Ordoñez de Pablos, F. J. García-Peñalvo, and L. Rusu, Eds., ed Berlin, Heidelberg: Springer Verlag, 2013, pp. 408-415.
- [72] A. B. González, M. J. Rodríguez-Conde, S. Olmos-Migueláñez, M. Borham, and F. J. García-Peñalvo, "Experimental evaluation of the impact of b-learning methodologies on engineering students in Spain," *Computers in Human Behavior*, vol. 29, pp. 370-377, Mar 2013.
- [73] A. B. González-Rogado, M. J. Rodríguez-Conde, S. Olmos-Migueláñez, M. Borham, and F. J. García-Peñalvo, "Key Factors for Determining Student Satisfaction in Engineering: A Regression Study," *International Journal of Engineering Education (IJEE)*, vol. 30, pp. 576-584, 2014.
- [74] F. Martínez-Abad, S. Olmos-Migueláñez, and M. J. Rodríguez-Conde, "Evaluación de un programa de formación en competencias informacionales para el futuro profesorado de E.S.O.," *Revista de Educación*, vol. 370, pp. 45-70, 2015.
- [75] S. Olmos Migueláñez and M. J. Rodríguez Conde, "El profesorado universitario ante la e-evaluación del aprendizaje," *ESE- Estudios sobre Educación*, vol. 23, pp. 181-202, 2011.
- [76] H. Barbosa and F. J. García-Peñalvo, "Importance of Online Assessment in the E-Learning Process," in *Proceedings of the 6th International Conference on Information Technology Based Higher Education and*

- Training - ITHET 2005. (Santo Domingo, Dominican Republic, July 7-9, 2005)*, ed: IEEE CS-Press, 2005, pp. F3B-1-F3B-6.
- [77] H. Barbosa León, F. J. García-Peñalvo, M. J. Rodríguez Conde, E. M. Morales, and P. Ordóñez de Pablos, "Adaptive Assessments using Open Specifications," *International Journal of Distance Education Technologies (IJDET)*, vol. 10, pp. 56-71, 2012.
- [78] H. G. Barbosa Leon, F. J. García Peñalvo, and M. J. Rodríguez Conde, *Defining adaptive assessments - Construction of adaptive assessments based in the learning style of the students*, 2007.
- [79] A. M. Seoane-Pardo and F. J. García-Peñalvo, "Tools and Methodologies Applied to eLearning," in *Proceedings of the Second International Congress on Tools for Teaching Logic, SICTTL (Salamanca, Spain, 26-30 September 2006)*, M. Manzano, B. Pérez, and A. Gil, Eds., ed, 2006, pp. 193-197.
- [80] F. J. García-Peñalvo, C. García de Figuerola, and J. A. Merlo-Vega, "Open knowledge management in higher education," *Online Information Review*, vol. 34, pp. 517-519, 2010.
- [81] F. J. García-Peñalvo, C. García de Figuerola, and J. A. Merlo-Vega, "Open knowledge: Challenges and facts," *Online Information Review*, vol. 34, pp. 520-539, 2010.
- [82] F. J. García-Peñalvo, "La Universidad de la próxima década: La Universidad Digital," in *Universidad y Desarrollo Social de la Web*, C. Suárez-Guerrero and F. J. García-Peñalvo, Eds., ed Washington DC, USA: Editandum, 2011, pp. 181-197.
- [83] C. Suárez Guerrero and F. J. García Peñalvo, Eds., *Universidad y Desarrollo Social de la Web*. Washington DC, USA: Editandum, 2011, p. ^pp. Pages.
- [84] A. J. Berlanga, F. J. García-Peñalvo, and P. B. Sloep, "Towards eLearning 2.0 University," *Interactive Learning Environments*, vol. 18, pp. 199-201, 2010.
- [85] F. J. García-Peñalvo, M. L. Sein-Echaluce Lacleeta, and Á. Fidalgo-Blanco, "Educational Innovation Management. A Case Study at the University of Salamanca," in *Proceedings of the Third International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'15) (Porto, Portugal, October 7-9, 2015)*, G. R. Alves and M. C. Felgueiras, Eds., ed New York, USA: ACM, 2015, pp. 151-158.
- [86] F. J. García-Peñalvo and S. Rivera, M., "Digital University 2010," in *EUNIS 2009. IT: Key of the European Space of Knowledge. (Santiago de Compostela, Spain, June 23rd - 26th, 2009)*, J. R. Canay, J. Franco, and P. J. Rey, Eds., ed Santiago de Compostela, Spain: Universidade de Santiago de Compostela Publicacións, 2009, p. 32.
- [87] L. Briz Ponce and F. J. García-Peñalvo, "An empirical assessment of a technology acceptance model for apps in medical education," *Journal of Medical Systems*, vol. 39, p. Paper 176, 2015.
- [88] L. Briz Ponce, J. A. Juanes Méndez, and F. J. García-Peñalvo, "A systematic review of using mobile devices in medical education," in *Proceedings of 2014 International Symposium on Computers in Education (SIIE), Logrono, La Rioja, Spain, 12-14 Nov. 2014*, J. L. Sierra-Rodríguez, J. M. Doderro-Beardo, and D. Burgos, Eds., ed USA: Institute of Electrical and Electronics Engineers, 2014, pp. 205-210.
- [89] L. Briz Ponce, J. A. Juanes Méndez, and F. J. García-Peñalvo, "Analysis of certificated mobile application for medical education purposes," in *Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM 2014) (Salamanca, Spain, October 1-3, 2014)*, F. J. García-Peñalvo, Ed., ed New York, NY, USA: ACM, 2014, pp. 13-17.
- [90] L. Briz Ponce, J. A. Juanes Méndez, and F. J. García-Peñalvo, "Dispositivos móviles y apps: Características y uso actual en educación médica," *Novática. Revista de la Asociación de Técnicos en Informática*, vol. 231, pp. 86-91, 2015.
- [91] L. Briz-Ponce and J. A. Juanes Méndez, "Mobile Devices and Apps, Characteristics and Current Potential on Learning," *Journal of Information Technology Research*, vol. 8, pp. 26-37, 2015.
- [92] L. Briz-Ponce, J. A. Juanes-Méndez, and F. J. García-Peñalvo, "Synopsis of discussion session on defining a new quality protocol for medical apps," in *Proceedings of the Third International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'15) (Porto, Portugal, October 7-9, 2015)*, G. R. Alves and M. C. Felgueiras, Eds., ed New York, NY, USA: ACM, 2015, pp. 7-12.
- [93] R. Therón and L. Fontanillo, "Diachronic-information visualization in historical dictionaries," *Information Visualization*, vol. 14, pp. 111-136, 2015.
- [94] F. J. García-Peñalvo, "Digital Humanities Data Processing," *Journal of Information Technology Research*, vol. 9, 2016.
- [95] R. Therón, C. Seguí, L. Cruz, and M. Vaquero, "Highly interactive and natural user interfaces: enabling visual analysis in historical lexicography," in *DATeCH '14 Proceedings of the First International Conference on Digital Access to Textual Cultural Heritage*, ed New York, NY, USA: ACM, 2014, pp. 153-158.
- [96] R. Therón and E. Wandl-Vogt, "The fun of exploration:How to access a non-standard language corpus visually," in *VisLR: Visualization as Added Value in the Development, Use and Evaluation of Language Resources*, A. Hautli-Janisz, V. Lyding, and C. Rohrdantz, Eds., ed, 2014, pp. 9-12.
- [97] F. J. García-Peñalvo, "Docencia," in *Libro Blanco de la Universidad Digital 2010*, J. Laviña Orueta and L. Mengual Pavón, Eds., ed Barcelona, España: Ariel, 2008, pp. 29-61.
- [98] F. J. García-Peñalvo, "¿Está cambiando la forma de impartir docencia? ¿Deberíamos cambiarla? - Interacción Persona Ordenador," presented at the Seminario Bienal Las Nuevas Formas de Enseñanza en la Universidad Digital, Madrid, 2014.
- [99] A. García-Valcárcel and M. Martín, "Análisis de las competencias digitales de los graduados en titulaciones de maestro," presented at the XXIII Jornadas Universitarias de Tecnología Educativa, Badajoz, 2015.
- [100] A. García-Valcárcel Muñoz-Repiso, V. Basilotta, and C. López, "Las TIC en el aprendizaje colaborativo en el aula de Primaria y Secundaria," *Comunicar*, vol. XXI, pp. 65-74, 2014.

- [101] A. García-Valcárcel Muñoz-Repiso and J. J. Mena Marcos, "Information Technology As a Way To Support Collaborative Learning: What In-service Teachers Think, Know and Do," *Journal of Information Technology Research*, vol. 9, 2016.
- [102] A. García-Valcárcel Muñoz-Repiso and F. J. Tejedor Tejedor, "Evaluación de procesos de innovación escolar basados en el uso de las TIC desarrollados en la Comunidad de Castilla y León," *Revista de Educación*, vol. 352, pp. 125-147, 2010.
- [103] A. García-Valcárcel Muñoz-Repiso and F. J. Tejedor Tejedor, "Variables TIC vinculadas a la generación de nuevos escenarios de aprendizaje en la enseñanza universitaria. Aportes de las curvas ROC para el análisis de diferencias," *Educación XXI*, vol. 14, pp. 43-78, 2011.
- [104] A. García-Valcárcel Muñoz-Repiso and F. J. Tejedor Tejedor, "The Incorporation of ICT in Higher Education. The contribution of ROC curves in the graphic visualization of differences in the analysis of the variables," *British Journal of Educational Technology*, vol. 43, pp. 901-919, 2012.
- [105] F. J. Tejedor Tejedor and A. García-Valcárcel Muñoz-Repiso, "Evaluación del desempeño docente," *Revista Española de Pedagogía*, vol. LXVIII, pp. 439-459, 2010.
- [106] F. J. Tejedor Tejedor and A. García-Valcárcel Muñoz-Repiso, "Sociedad tecnológica e investigación educativa," *Revista Española de Pedagogía*, vol. LXX, pp. 3-26, 2012.
- [107] T. Ferreras-Fernández, J. A. Merlo-Vega, and F. J. García-Peñalvo, "Impact of Scientific Content in Open Access Institutional Repositories. A case study of the Repository Gredos," in *Proceedings of the First International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'13) (Salamanca, Spain, November 14-15, 2013)*, F. J. García-Peñalvo, Ed., ed New York, NY, USA: ACM, 2013, pp. 357-363.
- [108] T. Ferreras-Fernández, J. A. Merlo-Vega, and F. J. García-Peñalvo, "Visibilidad de la literatura gris científica a través de repositorios. El caso de las tesis doctorales en GREDOS," presented at the XV Workshop de REBIUN sobre proyectos digitales y VI Jornadas de OS-Repositorios (11-13 de marzo de 2015), Córdoba, Spain, 2015.
- [109] F. J. García-Peñalvo, J. A. Merlo-Vega, T. Ferreras-Fernández, A. Casaus-Peña, L. Albás-Aso, and M. L. Atienza-Díaz, "Qualified Dublin Core Metadata Best Practices for GREDOS," *Journal of Library Metadata*, vol. 10, pp. 13-36, January 2010 2010.
- [110] C. López, F. García-Peñalvo, and P. Pernías, "Desarrollo de Repositorios de Objetos de Aprendizaje a través de la Reutilización de los Metadatos de una Colección Digital: De Dublin Core a IMS," *RED. Revista de Educación a Distancia*, vol. IV, 2005.
- [111] T. Ferreras-Fernández, J. A. Merlo-Vega, and F. J. García-Peñalvo, "Science 2.0 supported by Open Access Repositories and Open Linked Data," in *Proceedings of the First International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'13) (Salamanca, Spain, November 14-15, 2013)*, F. J. García-Peñalvo, Ed., ed New York, NY, USA: ACM, 2013, pp. 331-332.
- [112] A. J. Berlanga and F. J. García-Peñalvo, "Towards adaptive learning designs," in *Adaptive Hypermedia and Adaptive Web-Based Systems. 3rd International Conference, AH 2004, Proceedings (Eindhoven, The Netherlands, August 23-26, 2004)*, P. DeBra and W. Nejdl, Eds., ed Berlin: Springer Verlag, 2004, pp. 372-375.
- [113] F. J. García-Peñalvo, A. J. Berlanga, M. N. Moreno, J. García-Carrasco, and J. Carabias, "HyCo - An authoring tool to create semantic learning objects for Web-based e-learning systems," in *Web Engineering, Proceedings*, N. Koch, P. Fraternali, and M. Wirsing, Eds., ed Berlin: Springer Verlag, 2004, pp. 344-348.
- [114] A. Berlanga and F. J. García-Peñalvo, "A Proposal to Define Adaptive Learning Designs," in *Proceedings of the Workshop on Applications of Semantic Web Technologies for Educational Adaptive Hypermedia (SW-EL 2004)*, L. Aroyo and C. Tasso, Eds., ed 2004, pp. 354-358.
- [115] A. J. Berlanga and F. J. García-Peñalvo, "Introducción a los Estándares y Especificaciones para ambientes e-Learning," in *Tendencias en el Desarrollo de Aplicaciones Web*, F. J. García and M. N. Moreno, Eds., ed Salamanca: Departamento de Informática y Automática de la Universidad de Salamanca, 2004, pp. 25-37.
- [116] M. Á. Conde, F. J. García-Peñalvo, M. J. Casany, and M. Alier Forment, "Personal Learning Environments and the Integration with Learning Management Systems," in *Information Systems, E-learning, and Knowledge Management Research. 4th World Summit on the Knowledge Society, WSKS 2011, Mykonos, Greece, September 21-23, 2011. Revised Selected Papers*. vol. CCIS 278, M. D. Lytras, D. Ruan, R. Tennyson, P. Ordoñez de Pablos, F. J. García-Peñalvo, and L. Rusu, Eds., ed Berlin, Heidelberg: Springer Verlag, 2013, pp. 16-21.
- [117] M. Á. Conde, "Personalización del aprendizaje: Framework de servicios para la integración de aplicaciones online en los sistemas de gestión del aprendizaje," Doctorado en Informática y Automática Tesis Doctoral, Departamento de Informática y Automática, Universidad de Salamanca, Salamanca, 2012.
- [118] M. Á. Conde González, A. d. Pozo de Dios, and F. J. García Peñalvo, "e-Learning Services in Moodle 2.0," *CEPIS Upgrade*, vol. XII, pp. 43-50, 2011.
- [119] M. Á. Conde, F. J. García-Peñalvo, M. Alier, and J. Piguillem, "The implementation, deployment and evaluation of a Mobile Personal Learning Environment," *Journal of Universal Computer Science*, vol. 19, pp. 854-872, 2013.
- [120] M. Á. Conde-González, F. J. García-Peñalvo, and M. Alier, "Interoperability scenarios to measure informal learning carried out in PLEs," in *Proceedings of the Third IEEE International Conference on Intelligent Networking and Collaborative Systems, IEEE INCoS 2011* F. Xhafa, L. Barolli, and M. Köppen, Eds., ed Los Alamitos, CA, USA: IEEE CS Press, 2011, pp. 801-806.
- [121] F. J. García-Peñalvo, V. Zangrando, A. M. Seoane Pardo, A. García Holgado, and E. Ovide, "Learning European history and geography in a multicultural and ICT perspective," *International Journal of Technology Enhanced Learning (IJTEL)*, vol. 3, pp. 343-354, 2011.

- [122] F. J. García-Peñalvo, V. Zangrando, A. M. Seoane Pardo, A. García Holgado, J. Szczecinska, J. M. Baldner, *et al.*, *Multicultural Interdisciplinary Handbook. Tools for Learning History and Geography in a Multicultural Perspective*. Salamanca, Spain: Research GRoup in InterAction and eLearning, 2012.
- [123] V. Zangrando, F. J. García-Peñalvo, and A. M. Seoane Pardo, "Multicultural Interdisciplinary Handbook (MH): Tools for Learning History and Geography in a Multicultural and ICT Perspective," in *Technology Enhanced Learning: Quality of Teaching and Educational Reform. 1st International Conference, TECH-EDUCATION 2010, Athens, Greece, May 19-21, 2010. Proceedings (Athens, Greece, May 19-21, 2010)*, M. D. Lytras, P. O. DePablos, D. Avison, J. Sipiior, Q. Jin, W. Leal, *et al.*, Eds., ed Berlin, Heidelberg: Springer, 2010, pp. 374-378.
- [124] F. J. García-Peñalvo, *Multiculturalism in Technology-Based Education: Case Studies on ICT-Supported Approaches*. Hershey, PA, USA: Information Science Reference, 2013.
- [125] F. J. García-Peñalvo, J. C. González-González, and M. Murray, "MyElvin: A Web-Based Informal Learning Platform for Languages Practice," *International Journal of Knowledge Society Research*, vol. 3, pp. 26-39, 2012.
- [126] J. A. Gomes Pires, F. J. García-Peñalvo, J. H. Marinho Sampaio, and R. M. Martínez Vázquez, "Framework Entrepreneurship Process," in *Academic Entrepreneurship and Technological Innovation: A Business Management Perspective*, A. Szopa, W. Karwowski, and P. Ordóñez de Pablos, Eds., ed Hershey, PA, USA: Information Science Reference, 2013, pp. 228-254.
- [127] M. Á. Conde-González, F. J. García-Peñalvo, V. Zangrando, A. García-Holgado, A. M. Seoane-Pardo, M. Alier, *et al.*, "Enhancing informal learning recognition through TRAILER project," in *Proceedings of the Workshop on Solutions that Enhance Informal Learning Recognition (WEILER 2013). Co-located with 8th European Conference on Technology Enhanced Learning (EC-TEL 2013) (Paphos, Cyprus, September 18, 2013)*, vol. 1039, F. J. García-Peñalvo, M. A. Conde-González, and D. Griffiths, Eds., ed: CEUR Workshop Proceedings, 2013, pp. 21-30.
- [128] C. Viegas, M. Marques, G. Alves, A. Mykowska, N. Galanis, M. Alier, *et al.*, "TRAILER – a Tool for Managing Informal Learning," *International Journal of Human Capital and Information Technology Professionals (IJHCITP)*, vol. 5, pp. 1-17, 2014.
- [129] F. J. García-Peñalvo, M. Á. Conde, V. Zangrando, A. García-Holgado, A. M. Seoane, M. A. Forment, *et al.*, "TRAILER project (Tagging, recognition, acknowledgment of informal learning experiences). A Methodology to make visible learners' informal learning activities to the institutions," *Journal of Universal Computer Science*, vol. 19, p. 1661, 2013.
- [130] F. J. García-Peñalvo, V. Zangrando, A. García-Holgado, M. Á. Conde, A. M. Seoane Pardo, M. Alier Forment, *et al.*, "TRAILER project overview: Tagging, recognition and acknowledgment of informal learning experiences," presented at the 2012 International Symposium on Computers in Education (SIEE), Andorra La Vella, Andorra. October 29-31, 2012, 2012.
- [131] C. Viegas, A. Marques, G. Alves, V. Zangrando, N. Galanis, F. Brouns, *et al.*, "Using TRAILER tool for Managing Informal Learning in academic and professional contexts: the learners' perspective," presented at the Technological Ecosystems for Enhancing Multiculturality (TEEM'13), Salamanca, 2013.
- [132] F. J. García-Peñalvo and M. Á. Conde, "Using informal learning for business decision making and knowledge management," *Journal of Business Research*, vol. 67, pp. 686-691, 2014.
- [133] N. Galanis, E. Mayol, M. Alier, and F. J. García-Peñalvo, "Supporting, evaluating and validating informal learning. A social approach," *Computers in Human Behavior*, vol. 55A, pp. 596-603, 2016.
- [134] F. J. García-Peñalvo, M. Johnson, G. Ribeiro Alves, M. Minovic, and M. Á. Conde-González, "Informal learning recognition through a cloud ecosystem," *Future Generation Computer Systems*, vol. 32, pp. 282-294, 2014.
- [135] S. Popp, J. Schumann, O. Simmet, J. Szczecińska, S. Hadrysiak, T. Haydn, *et al.*, "European history crossroads as pathways to intercultural and media education (EHISTO)," in *Proceedings of the TEEM'13 Track on Knowledge Society Related Projects (Salamanca, Spain, November 16, 2013)*, F. J. García-Peñalvo, A. García-Holgado, and J. Cruz-Benito, Eds., ed Salamanca, Spain: Grupo GRIAL, 2013, pp. 31-35.
- [136] M. Raveri, C. Crivellari, G. Lapis, M. Bombardieri, G. Nardini, B. Nuti, *et al.*, "Intercultural Education through Religious Studies (IERS)," in *Proceedings of the TEEM'13 Track on Knowledge Society Related Projects (Salamanca, Spain, November 16, 2013)*, F. J. García-Peñalvo, A. García-Holgado, and J. Cruz-Benito, Eds., ed Salamanca, Spain: Grupo GRIAL, 2013, pp. 43-48.
- [137] E. Carboni, M. Paoletti, F. J. García-Peñalvo, V. Zangrando, M. J. Rodríguez-Conde, A. García-Holgado, *et al.*, "Intercultural Mentoring tools to support migrant integration at school (INTO)," in *Proceedings of the TEEM'13 Track on Knowledge Society Related Projects (Salamanca, Spain, November 16, 2013)*, F. J. García-Peñalvo, A. García-Holgado, and J. Cruz-Benito, Eds., ed Salamanca, Spain: Grupo GRIAL, 2013, pp. 53-58.
- [138] P. No-Gutiérrez, M. J. Rodríguez Conde, V. Zangrando, and A. M. Seoane-Pardo, "Assessment of the intercultural mentoring programme," presented at the 3rd International Conference on Technological Ecosystems for Enhancing Multiculturality, Porto, Portugal, 2015.
- [139] P. No-Gutiérrez, M. J. Rodríguez Conde, V. Zangrando, and A. M. Seoane-Pardo, "EERA: Peer Tutoring With Migrant Students: Intercultural Mentoring Programme," presented at the ECER 2015 "Education and Transition. Contributions from Educational Research", Budapest, Hungary, 2015.
- [140] F. J. García-Peñalvo, J. Cruz-Benito, D. Griffiths, P. Sharples, S. Willson, M. Johnson, *et al.*, "Developing Win-Win Solutions for Virtual Placements in Informatics: The VALS Case," in *Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'14)*, F. J. García-Peñalvo, Ed., ed New York, USA: ACM, 2014, pp. 733-738.

- [141] F. J. García-Peñalvo and J. Cruz-Benito. (2015). *Informe de Buena Práctica - Proyecto Europeo VALS y Semester of Code: Prácticas Virtuales en Empresas y Fundaciones relacionadas con el Software Libre a nivel Europeo*. Available: <http://repositorio.grial.eu/handle/grial/410>
- [142] F. J. García-Peñalvo and J. Cruz-Benito, "Proyecto Europeo VALS y Semester of Code: Prácticas Virtuales en Empresas y Fundaciones relacionadas con el Software Libre a nivel Europeo (Versión póster)," presented at the Seminario Bienal "La Universidad Digital". Taller de Buenas Prácticas: Presentación de Experiencias, Madrid, 2015.
- [143] F. J. García-Peñalvo, I. Álvarez Navia, J. R. García-Bermejo, M. Conde-González, A. García-Holgado, V. Zangrando, *et al.*, "VALS: Virtual Alliances for Learning Society," in *Proceedings of the TEEM'13 Track on Knowledge Society Related Projects*, F. J. García-Peñalvo, A. García-Holgado, and J. Cruz-Benito, Eds., ed Salamanca, Spain: Grupo GRIAL, 2013, pp. 19-26.
- [144] F. J. García-Peñalvo, J. Cruz-Benito, M. Á. Conde, and D. Griffiths, "Semester of Code: Piloting Virtual Placements for Informatics across Europe," in *Proceedings of Global Engineering Education Conference, EDUCON 2015. Tallinn, Estonia, 18-20 March 2015*, ed USA: IEEE, 2015, pp. 567-576.
- [145] F. J. García-Peñalvo, J. Cruz-Benito, M. Á. Conde, and D. Griffiths, "Virtual placements for informatics students in open source business across Europe," in *2014 IEEE Frontiers in Education Conference Proceedings (October 22-25, 2014 Madrid, Spain)*, ed USA: IEEE, 2014, pp. 2551-2555.
- [146] F. J. García-Peñalvo, J. Cruz-Benito, D. Griffiths, and A. P. Achilleos, "Tecnología al servicio de un proceso de gestión de prácticas virtuales en empresas: Propuesta y primeros resultados del Semester of Code," *IEEE VAEP-RITA*, vol. 3, pp. 52-59, 2015.
- [147] F. J. García-Peñalvo, J. Cruz-Benito, D. Griffiths, and A. P. Achilleos, "Virtual placements management process supported by technology: Proposal and firsts results of the Semester of Code," *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE RITA)*, vol. 11, 2016.
- [148] F. J. García-Peñalvo, "Entrepreneurial and problem solving skills in software engineers," *Journal of Information Technology Research*, vol. 8, pp. iv-vi, 2015.