

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

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## **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 7<sup>th</sup>, 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>

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