



Elena Verdú Pérez

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Elena Verdú Pérez

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 Contact aut. region/reg.: **Castile and León**

Current professional situation

Employing entity: Universidad Internacional de La Rioja **Type of entity:** University

Department: Escuela Superior de Ingeniería y Tecnología

Professional category: Grupo I (Docentes). Nivel I (Profesor Titular de Universidad)

Start date: 01/03/2020

Type of contract: Permanent employment contract

Primary (UNESCO code): 330400 - Computer technology; 332500 - Telecommunications technology

Identify key words: Artificial intelligence; Telecommunications; Telematics; Dataprocessing; Models based on the knowledge; Learning; Information and communication technology (ict) in education

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Internacional de La Rioja	Grupo I (Docentes). Nivel II (Profesor Agregado)	01/09/2016
2	Universidad Internacional de la Rioja	Profesor Agregado	01/03/2016
3	Universidad Internacional de la Rioja	Profesor Adjunto	01/10/2015
4	FUNDACION GENERAL DE LA UNIVERSIDAD DE VALLADOLID	Ingeniero Superior de Telecomunicación	01/10/2012
5	Universidad Internacional de la Rioja	Profesor Colaborador	19/05/2014
6	Universidad de Valladolid	Titulado Superior	21/05/2012
7	Universidad de Valladolid	Profesor Asociado	01/10/2003
8	FUNDACION GENERAL DE LA UNIVERSIDAD DE VALLADOLID	Ingeniero de Telecomunicación	16/03/2012
9	CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON	Jefe de Proyectos, Coordinadora de Investigación	28/12/2000
10	Universidad de Valladolid	Titulado Superior	01/09/2000
11	ATOS ODS, S.A.	Titulado Superior	24/01/2000
12	Sistemas Informáticos Abiertos S.A.	Titulado Superior	03/11/1999



- 1** **Employing entity:** Universidad Internacional de La Rioja **Type of entity:** University
Department: Escuela Superior de Ingeniería y Tecnología
Professional category: Grupo I (Docentes). Nivel II (Profesor Agregado)
Start-End date: 01/09/2016 - 29/02/2020
Type of contract: Permanent employment contract
- 2** **Employing entity:** Universidad Internacional de la Rioja
Professional category: Profesor Agregado
Start-End date: 01/03/2016 - 31/08/2016
- 3** **Employing entity:** Universidad Internacional de la Rioja
Professional category: Profesor Adjunto
Start-End date: 01/10/2015 - 29/02/2016
- 4** **Employing entity:** FUNDACION GENERAL DE LA UNIVERSIDAD DE VALLADOLID
Professional category: Ingeniero Superior de Telecomunicación
Start-End date: 01/10/2012 - 30/09/2015 **Duration:** 3 years
- 5** **Employing entity:** Universidad Internacional de la Rioja
Professional category: Profesor Colaborador
Start-End date: 19/05/2014 - 29/09/2015
- 6** **Employing entity:** Universidad de Valladolid **Type of entity:** University
Professional category: Titulado Superior
Start-End date: 21/05/2012 - 30/09/2012
- 7** **Employing entity:** Universidad de Valladolid
Professional category: Profesor Asociado
Start-End date: 01/10/2003 - 31/08/2012
- 8** **Employing entity:** FUNDACION GENERAL DE LA UNIVERSIDAD DE VALLADOLID
Professional category: Ingeniero de Telecomunicación
Start-End date: 16/03/2012 - 20/05/2012
- 9** **Employing entity:** CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON
Professional category: Jefe de Proyectos, Coordinadora de Investigación
Start-End date: 28/12/2000 - 13/03/2012
Type of contract: Permanent employment contract
- 10** **Employing entity:** Universidad de Valladolid **Type of entity:** University
Professional category: Titulado Superior
Start-End date: 01/09/2000 - 26/12/2000
- 11** **Employing entity:** ATOS ODS, S.A.
Professional category: Titulado Superior
Start-End date: 24/01/2000 - 03/2000



12 **Employing entity:** Sistemas Informáticos Abiertos S.A.
Professional category: Titulado Superior
Start-End date: 03/11/1999 - 21/01/2000



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Ingeniería de Telecomunicación

Degree awarding entity: Universidad de Valladolid **Type of entity:** University

Date of qualification: 01/10/1999

Doctorates

Doctorate programme: Tecnologías de la Información y las Telecomunicaciones

Degree awarding entity: Universidad de Valladolid **Type of entity:** University

Date of degree: 08/10/2010

Teaching experience

General teaching experience

- 1 Name of the course:** Curso Especializado de Bibliometría para Investigadores
University degree: Doctorado en Ciencias de la Computación
Start date: 01/2019 **End date:** 03/2019
Entity: Universidad Internacional de La Rioja **Type of entity:** University
- 2 Name of the course:** Aprendizaje Automático y Minería de Datos
University degree: Grado en Ingeniería Informática
Start date: 02/2016 **End date:** 09/2018
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Ingeniería y Tecnología
- 3 Name of the course:** Técnicas de Inteligencia Artificial
University degree: Máster universitario en Análisis y Visualización de Datos Masivos
Start date: 11/2016 **End date:** 09/2017
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Ingeniería y Tecnología
- 4 Name of the course:** Sistemas Inteligentes
University degree: Grado en Ingeniería Informática
Start date: 10/2015 **End date:** 09/2017
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Ingeniería y Tecnología



- 5** **Name of the course:** Técnicas de Inteligencia Artificial
University degree: Visual Analytics y Big Data
Start date: 2014 **End date:** 2017
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Ingeniería y Tecnología
- 6** **Name of the course:** Informática Teórica
University degree: Grado en Ingeniería Informática
Start date: 10/2015 **End date:** 09/2016
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Ingeniería y Tecnología
- 7** **Name of the course:** Sistemas Telemáticos II
University degree: Ingeniero de Telecomunicación
Start date: 01/10/2007 **End date:** 30/09/2012
Entity: Universidad de Valladolid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación
- 8** **Name of the course:** Sistemas Telemáticos V
University degree: Ingeniero de Telecomunicación
Start date: 19/09/2011 **End date:** 25/07/2012
Entity: Universidad de Valladolid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación
- 9** **Name of the course:** ARQUITECTURA DE REDES, SISTEMAS Y SERVICIOS
University degree: GRADO EN INGENIERIA DE TELECOMUNICACION, GRADO EN INGENIERIA TELEMATICA, GRADO EN INGENIERIA DE TECNOLOGIAS DE TELECOMUNICACION, GRADO EN INGENIERIA DE SISTEMAS ELECTRONICOS
Start date: 19/09/2011 **End date:** 24/07/2012
Entity: Universidad de Valladolid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación
- 10** **Name of the course:** Soportes Telemáticos
University degree: MASTER OFICIAL EN TRADUCCION PROFESIONAL E INSTITUCIONAL
Start date: 01/10/2010 **End date:** 24/07/2012
Entity: Universidad de Valladolid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación
- 11** **Name of the course:** EDICION Y GESTION DE PLAT. WEB:HERRAM., SIST., PROG. Y APLIC. INTEGR. DE MEDIOS Y SERV. EN PLAT. WEB
University degree: MASTER IBEROAMERICANO DE SERVICIOS DE INFORMACION A LA JUVENTUD Y DESARROLLO COMUNITARIO EN NUEVAS TECNOLOGIAS
Start date: 01/02/2012 **End date:** 30/06/2012
Entity: Universidad de Salamanca **Type of entity:** University
- 12** **Name of the course:** ESTANDARES DE INTERCAMBIO DE DATOS Y LENGUAJES: XML.INTEROPERATIVIDAD EN PLATAFORMAS WEB.
University degree: MASTER IBEROAMERICANO DE SERVICIOS DE INFORMACION A LA JUVENTUD Y DESARROLLO COMUNITARIO EN NUEVAS TECNOLOGIAS
Start date: 01/02/2012 **End date:** 30/06/2012



Entity: UNIVERSIDAD DE SALAMANCA

Type of entity: University

13 Name of the course: Transmisión de Datos

University degree: INGENIERO TECNICO DE TELECOMUNICACION ESPECIALIDAD SISTEMAS DE TELECOMUNICACION

Start date: 01/10/2003

End date: 30/09/2011

Entity: Universidad de Valladolid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación

14 Name of the course: Transmisión de Datos

University degree: Ingeniero de Telecomunicación

Start date: 01/10/2005

End date: 30/09/2009

Entity: Universidad de Valladolid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación

15 Name of the course: Sistemas Telemáticos II

University degree: Ingeniero de Telecomunicación

Start date: 01/10/2006

End date: 30/09/2007

Entity: Universidad de Valladolid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación

16 Name of the course: Sistemas Telemáticos II

University degree: Ingeniero de Telecomunicación

Start date: 01/10/2003

End date: 30/09/2006

Entity: Universidad de Valladolid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación

17 Name of the course: Complementos de Telemática III

University degree: Ingeniero de Telecomunicación

Start date: 01/10/2003

End date: 30/09/2004

Entity: Universidad de Valladolid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación

18 Name of the course: Sistemas Telemáticos III

University degree: Ingeniero de Telecomunicación

Start date: 01/10/2003

End date: 30/09/2004

Entity: Universidad de Valladolid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Telecomunicación

19 Name of the course: Inteligencia Artificial e Ingeniería del Conocimiento

University degree: Grado en Ingeniería Informática

Start date: 02/2016

Entity: Universidad Internacional de La Rioja

Type of entity: University

Faculty, institute or centre: Escuela Superior de Ingeniería y Tecnología

20 Name of the course: Informática

University degree: Grado en Ingeniería de Organización Industrial

Start date: 10/2015

Entity: Universidad Internacional de La Rioja

Type of entity: University

Faculty, institute or centre: Escuela Superior de Ingeniería y Tecnología



Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Aplicación de Algoritmos Genéticos para el entrenamiento y la optimización de Redes de Neuronas Artificiales
Type of project: Proyecto Fin de Máster
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Student: Raúl Reguillo Carmona
Date of reading: 2019
- 2** **Project title:** Breakfastclub - Agent-based model simulation of a virtual classroom
Type of project: Proyecto Fin de Máster
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Student: Manuel Pasioka
Date of reading: 2019
- 3** **Project title:** Entorno simulado con interacción de agentes basados en planificadores GOAP
Type of project: Proyecto Fin de Máster
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Student: Víctor Muñoz Reyes
Date of reading: 2019
- 4** **Project title:** Inteligencia Artificial y Big Data: Clasificación de Textos
Type of project: Proyecto Fin de Máster
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Student: Javier de la Rosa Fernández
Date of reading: 2019
- 5** **Project title:** Clasificación y normalización de productos visualizados en web de supermercados
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Student: Jorge Enrique Vicente Hernández
Date of reading: 2019
- 6** **Project title:** Gamificación de las matemáticas en la enseñanza del valor posicional de cantidades
Type of project: Trabajo Fin de Máster
Entity: Universidad Internacional de La Rioja **Type of entity:** University
Student: Martha Emilia Ortegón Yañez
Date of reading: 11/2016
- 7** **Project title:** Creación y utilización de material multimedia interactivo a través de eScholarium en el área de Educación Física
Type of project: Trabajo Fin de Máster
Entity: Universidad Internacional de La Rioja
Student: Pablo Moreno González
Date of reading: 05/10/2016
- 8** **Project title:** Implementación de juegos para la evaluación continua en la teoría de circuitos
Type of project: Trabajo Fin de Máster
Entity: Universidad Internacional de La Rioja
Student: Lady Alexandra Rodríguez Rincón



Date of reading: 05/10/2016

- 9** **Project title:** Análisis de personalidad y estados de ánimo para recomendación de listas de reproducción
Type of project: Trabajo Fin de Máster (Título propio)
Entity: Universidad Internacional de La Rioja
Student: Álvaro López López
Date of reading: 2015
- 10** **Project title:** Estadística e inteligencia artificial aplicadas en las apuestas de tenis
Type of project: Trabajo Fin de Máster (Título propio)
Entity: Universidad Internacional de La Rioja
Student: Sergio Melero González
Date of reading: 2015
- 11** **Project title:** Factores asociados a los logros de aprendizaje en educación media en Colombia
Type of project: Trabajo Fin de Máster (Título propio)
Entity: Universidad Internacional de La Rioja
Student: Javier Andrés Rubio
Date of reading: 2015
- 12** **Project title:** Implementación de un sistema de sensorización, captura, procesado y visualización de datos en entorno agrícola
Type of project: Trabajo Fin de Máster (Título propio)
Entity: Universidad Internacional de La Rioja
Student: Alejandro Almarza Morcillo
Date of reading: 2015
- 13** **Project title:** Monitor Agregado índices de audiencia, en medios digitales
Type of project: Trabajo Fin de Máster (Título propio)
Entity: Universidad Internacional de La Rioja
Student: José Ignacio Gaspar Peiró
Date of reading: 2015
- 14** **Project title:** TICs y Accesibilidad a la Comunicación para Personas con Discapacidad Auditiva Severa o Profunda
Entity: Universidad de Valladolid
Date of reading: 02/09/2014
- 15** **Project title:** Accesibilidad a la Televisión Digital para personas con discapacidad auditiva
Entity: Universidad de Valladolid
Student: Mónica Castañón Llamas
Date of reading: 2013
Type of entity: University
- 16** **Project title:** Utilización de Entornos Inmersivos en Educación Universitaria
Type of project: End of course project
Entity: Universidad de Valladolid
Student: Cristina Martínez Campos
Date of reading: 2012



- 17** **Project title:** Administración y uso de websphere MQ en la gestión de una red de acceso a servicios XDSL
Type of project: End of course project
Entity: Universidad de Valladolid **Type of entity:** University
Student: Jesús Hernández Abeleira
Date of reading: 2009
- 18** **Project title:** Aplicación de algoritmos de clustering para la clasificación no supervisada y el estudio de los desafíos propuestos en el sistema QUESTOURnament
Type of project: End of course project
Entity: Universidad de Valladolid **Type of entity:** University
Student: Marta de la Fuente Villegas
Date of reading: 2009
- 19** **Project title:** Aplicación de los algoritmos genéticos para la adaptación de la dificultad de los desafíos propuestos en el módulo QUESTOURnament
Type of project: End of course project
Entity: Universidad de Valladolid **Type of entity:** University
Student: David Sánchez Carabias
Date of reading: 2009
- 20** **Project title:** Estudio y análisis de la aplicabilidad de la teoría de respuesta al ítem al sistema QUESTOURnament adaptativo
Type of project: End of course project
Entity: Universidad de Valladolid **Type of entity:** University
Student: Cristina Martínez Campos
Date of reading: 2009
- 21** **Project title:** Adaptación de los contenidos de una plataforma e-learning al estándar SCORM
Type of project: End of course project
Entity: Universidad de Valladolid **Type of entity:** University
Student: David Castelló Molpeceres
Date of reading: 2005
- 22** **Project title:** Análisis para la mejora de la calidad de servicio de la plataforma de teleformación Odiseame y diseño de un procedimiento de monitorización del servicio
Type of project: End of course project
Entity: Universidad de Valladolid **Type of entity:** University
Student: Eduardo Hernández Perdiguero
Date of reading: 2005

Participation in innovative teaching projects

- 1** **Project title:** uR-Mentor
Type of participation: Team member
Funding entity: Universidad Internacional de La Rioja **Type of entity:** University
Start-End date: 01/09/2016 - 28/02/2017
- 2** **Project title:** Desarrollo y evaluación de una herramienta para la administración y calificación de equipos de trabajo en Moodle
Type of participation: Team member



Funding entity: Universidad de Valladolid
Start-End date: 01/06/2014 - 31/05/2015

Type of entity: University

3 Project title: ACTUALIZACION A MOODLE 2.4 DE LA PLATAFORMA SATELITE ITASTFORMACION Y DE LA HERRAMIENTA DE CONCURSOS QUESTOURNAMENT PARA SU INTEROPERABILIDAD CON LA NUEVA VERSION DEL CAMPUS VIRTUAL

Funding entity: Universidad de Valladolid
Start-End date: 01/01/2013 - 30/06/2014

4 Project title: SISTEMA BLENDED-LEARNING PARA LA GENERACION Y CORRECCION AUTOMATICA DE CUESTIONARIOS EN PAPEL A PARTIR DE LOS CUESTIONARIOS DE MOODLE

Type of participation: Co-ordinator
Funding entity: Universidad de Valladolid
Start-End date: 01/01/2012 - 31/12/2012

Type of entity: University

5 Project title: METODOS DE APRENDIZAJE COLABORATIVO Y COMPETITIVOS BASADOS EN TIC PARA LA ADAPTACION AL ESPACIO EUROPEO DE EDUCACION SUPERIOR: AMPLIACION DE EXPERIENCIAS

Type of participation: Co-ordinator
Funding entity: Universidad de Valladolid
Start-End date: 01/09/2009 - 31/08/2010

Type of entity: University

6 Project title: METODOS DE APRENDIZAJE COLABORATIVO Y COMPETITIVOS BASADOS EN TIC PARA LA ADAPTACION AL EEES

Funding entity: Universidad de Valladolid
Start-End date: 01/09/2007 - 01/09/2008

Type of entity: University

7 Project title: APLICACION DE METODOLOGIAS COLABORATIVAS Y COMPETITIVAS DE ELEARNING 2.0 EN ASIGNATURAS TECNICAS Y DE HUMANIDADES: UNA APROXIMACION AL EEES

Funding entity: CONSEJERIA DE EDUCACION Y CULTURA DE LA JUNTA DE CASTILLA Y LEON
Start-End date: 04/12/2007 - 10/06/2008

8 Project title: PROYECTO PILOTO DE APLICACION DE METODOLOGIAS ACTIVAS PARA LA INTEGRACION EN EL ESPACIO EUROPEO DE EDUCACION SUPERIOR

Funding entity: CONSEJERIA DE EDUCACION Y CULTURA DE LA JUNTA DE CASTILLA Y LEON
Start-End date: 01/12/2005 - 30/06/2006



Scientific and technological experience

Research and development groups/teams

- 1 **Name of the group:** DDS (Data Driven Science)
Affiliation entity: Universidad Internacional de La Rioja
Start date: 2019
- 2 **Name of the group:** Grupo de Inteligencia Artificial y Robótica
Affiliation entity: Universidad Internacional de La Rioja
Start date: 2017 **Duration:** 2 years
- 3 **Name of the group:** Cybersecuritics
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Universidad Internacional de La Rioja **Type of entity:** University
Start date: 2016 **Duration:** 1 year
- 4 **Name of the group:** Grupo de Investigación de Excelencia de Castilla y León "Intersemiótica, Traducción y Nuevas Tecnologías (ITNT)"
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Universidad de Valladolid **Type of entity:** University
Start date: 2005 **Duration:** 9 years

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 **Name of the project:** Procesado de Lenguaje Natural para la Evaluación de Tareas Semiautomática
Entity where project took place: Universidad Internacional de La Rioja
Name principal investigator (PI, Co-PI...): Luis de la Fuente Valentín
Nº of researchers: 6
Funding entity or bodies: Ministerio de Ciencia e Innovación. Universidades **Type of entity:** Body, others
Type of participation: Team member
Name of the programme: Proyectos de I+D+i Retos Investigación
Start-End date: 01/06/2020 - 31/05/2023 **Duration:** 3 years
Total amount: 74.233 €
- 2 **Name of the project:** Procesamiento de Lenguaje Natural para la Evaluación de Tareas Online
Entity where project took place: Universidad Internacional de La Rioja
Name principal investigator (PI, Co-PI...): Silvia Margarita Baldiris Navarro
Funding entity or bodies: Universidad Internacional de La Rioja
Type of participation: Team member
Name of the programme: Proyectos Propios de Investigación de la Universidad Internacional de La Rioja



Start-End date: 01/09/2020 - 31/08/2021

Total amount: 8.800 €

3 Name of the project: SOCIAL4ALL. Plataforma de Adaptación de la Accesibilidad para Redes Sociales

Entity where project took place: Universidad Internacional de la Rioja

Name principal investigator (PI, Co-PI....): Rubén González Crespo

Funding entity or bodies:

Agencia de Desarrollo Económico de La Rioja

Start-End date: 01/09/2015 - 30/04/2016

4 Name of the project: Intelligent Tutoring Interface for Technology Enhanced Learning (INTUITEL)

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Universidad de Valladolid **Type of entity:** University

Name principal investigator (PI, Co-PI....): María Jesús Verdú Pérez (por la Universidad de Valladolid)

Nº of researchers: 4

Funding entity or bodies:

Comisión Europea

Type of entity: Body, others

Name of the programme: 7PM

Code according to the funding entity: 318496-FP7-ICT-2011-8

Start-End date: 01/10/2012 - 30/06/2015

Participating entity/entities: EXACT Learning Solutions SPA (IT); Forschungszentrum Informatik an der Universitaet Karlsruhe (DE); Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung E.V. (DE); Holon Institute of Technology (IL); Imc Information Multimedia Communication Ag (DE); Karlsruhe Technik und Wirtschaft (DE); Steinbeis Innovation gmbH (DE); TIE Nederland B.V. (NL); UNIVERSITAET WIEN (AT); Universidad Internacional de la Rioja (ES); Universidad de Valladolid (ES); University of Reading (UK)

Total amount: 2.900.000 €

5 Name of the project: E-Salud. Control en movilidad

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Valladolid **Type of entity:** University

Name principal investigator (PI, Co-PI....): Juan Pablo de Castro Fernández (por la Universidad de Valladolid)

Nº of researchers: 5

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Body, others

Name of the programme: Subprograma INNPACTO

Code according to the funding entity: IPT-2011-1639-900000

Start-End date: 07/2011 - 31/12/2013

Participating entity/entities: Centro de Observación y Teledetección Espacial S.A.; Fundación INTRAS; Genasys II España SA y Universidad de Valladolid

Total amount: 216.209 €

6 Name of the project: Utilización de las tecnologías de la información para la elaboración de un Diccionario Terminológico de Genética Inglés-Francés-Alemán-Español

Geographical area: Regional

Degree of contribution: Researcher



Entity where project took place: Universidad de Valladolid **Type of entity:** University

Name principal investigator (PI, Co-PI....): Antonio Bueno García (U. Valladolid)

N° of researchers: 10

Funding entity or bodies:

Junta de Castilla y León Tipo de entidad: Programa general de apoyo a proyectos de investigación.

Start-End date: 01/2011 - 31/12/2013

Participating entity/entities: Universidad de Valladolid

Total amount: 15.000 €

7 Name of the project: Plataforma Voto-E

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON

Name principal investigator (PI, Co-PI....): Luis Aníbarro Marbán

Funding entity or bodies:

MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO

Name of the programme: Plan Avanza 2

Code according to the funding entity: TSI-070100-2010-101

Start-End date: 01/09/2010 - 31/12/2012

Participating entity/entities: AETICAL; CEDETEL

Total amount: 520.000 €

Sub-project amount: 104.100 €

Percentage as grant: 50

Percentage as credit: 50

8 Name of the project: Convenio de Colaboración entre el Centro Nacional de Información Geográfica, del Ministerio de Fomento, y la Universidad de Valladolid para el desarrollo del proyecto "España Virtual" en el marco del programa CENIT del Centro para el Desarrollo Tecnológico Industrial del Ministerio de Ciencia e Innovación

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Valladolid **Type of entity:** University

Name principal investigator (PI, Co-PI....): Juan Pablo de Castro Fernández (U. Valladolid)

N° of researchers: 6

Funding entity or bodies:

Ministerio de Ciencia e Innovación a través del Centro Nacional de Información Geográfica (CNIG)

Code according to the funding entity: CENIT-2008 1030

Start-End date: 01/2009 - 12/2011

Participating entity/entities: Universidad de Valladolid

Total amount: 779.218 €

9 Name of the project: A European curriculum related video library and hybrid e-services for the pedagogical exploitation of video in class (EduTubePlus)

Geographical area: European Union

Degree of contribution: Scientific coordinator

Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON

Name principal investigator (PI, Co-PI....): Rubén M. Lorenzo Toledo; Elena Verdú Pérez

N° of researchers: 3

**Funding entity or bodies:**

Comisión Europea

Type of entity: UE**City funding entity:** Madrid, Community of Madrid, Spain**Name of the programme:** ECONTENTPLUS**Code according to the funding entity:** ECP-2007-EDU-427003**Start-End date:** 01/09/2008 - 28/02/2011**Participating entity/entities:** ATiT Audiovisual Technologies; CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON; Companhia de Ideias Anonimas Comunicacao Social Lda; EduCentrum vzw; Education Highway - Innovationszentrum fuer Schule und Neue Technologie GmbH; Fonazione Maddalena Di Canossa; Informatics and Telecommunication; Klett Lerner Und Wissen GmbH; Lesite.tv; MENON Network; Ministry Of National Education and Religious Affairs; RAI-Radiotelevisione Italiana Spa; Research Academic Computer Technology Institute; SIVECO Romania SA; SZÁMALK Education and Information Technology Ltd; The University of Hull; The University of Jyväskylä; Universidad Nacional de Educacion a distancia**Total amount:** 4.600.000 €**Sub-project amount:** 110.220 €**Percentage as grant:** 50**10 Name of the project:** Integrating Online Judge into effective e-learning (EDUJUDGE)**Geographical area:** European Union**Degree of contribution:** Scientific coordinator**Entity where project took place:** CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON**Name principal investigator (PI, Co-PI...):** Rubén M. Lorenzo Toledo; Elena Verdú Pérez**Nº of researchers:** 3**Funding entity or bodies:**

Comisión Europea

Type of entity: CE**City funding entity:** Madrid, Community of Madrid, Spain**Name of the programme:** Programa de Acción en el Ámbito del Aprendizaje Permanente**Start-End date:** 01/2008 - 31/05/2010**Participating entity/entities:** Cedetel (España); Institute of Mathematics and Informatics (Lituania); Royal Institute of Technology (Suecia); Universidad de Oporto (Portugal); Universidad de Valladolid (España)**Total amount:** 601.065 €**Sub-project amount:** 155.291 €**Percentage as grant:** 75**11 Name of the project:** SUMA: Desarrollo de un sistema de integración de servicios de elearning usando estándares**Geographical area:** National**Degree of contribution:** Scientific coordinator**Entity where project took place:** CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON**Name principal investigator (PI, Co-PI...):** Rubén M. Lorenzo Toledo; Elena Verdú Pérez**Nº of researchers:** 6**Funding entity or bodies:**

Ministerio de Industria, Turismo y Comercio

Name of the programme: PROFIT**Code according to the funding entity:** FIT-350503-2007-8**Start-End date:** 01/01/2007 - 28/02/2008**Participating entity/entities:** ATOS ORIGIN SAE; CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON; Centro de Supercomputación de Galicia; FUNDACION PER A LA UNIVERSITAT OBERTA DE CATALUNYA; Fundación FIDES; GEC; IDEA Informática;



Interonline; OPENTRENDS; Tecsidel, S.A.; UPCNET; Universidad de Alcalá de Henares; Universidad de Santiago de Compostela; Universidade de Vigo

Total amount: 2.836.306 €

Sub-project amount: 28.220 €

Percentage as grant: 33

Percentage as credit: 50

12 Name of the project: Implantación de servicios avanzados de información y comunicación a colectivos de PYMES de áreas periféricas del Sudoeste Europeo

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON

Name principal investigator (PI, Co-PI....): Beatriz García Morales

Funding entity or bodies:

Comisión Europea

Type of entity: CE

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: INTERREG III B Sudoeste europeo (SUDOE)

Start-End date: 01/04/2005 - 31/03/2007

Participating entity/entities: Agência de Desenvolvimento Regional de Tras-Os-Montes e Alto Douro; Centre Européen d'Echanges et de Technologie Midi-Pyrénées Aquitaine; Centro de Inovação Empresarial da Beira Interior; Chambre de Commerce et D'Industrie de Toulouse; FUNDACION CTIC CENTRO TECNOLÓGICO PARA EL DESARROLLO EN ASTURIAS DE TECNOLOGIAS INFORMAC.Y COMUNIC.; Réseau universitaire Toulouse Midi-Pyrénées; Sociedad de desarrollo de Santa Cruz de Tenerife

Total amount: 1.481.392 €

Sub-project amount: 414.874 €

13 Name of the project: Ayuda Complementaria para el Proyecto Europeo ODISEAME (Open Distance Inter-university Synergies between Europe, Africa and Middle East)

Degree of contribution: Researcher

Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON

Nº of researchers: 18

Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City funding entity: Spain

Name of the programme: Programa de Acciones Complementarias

Code according to the funding entity: TSI2005-25918-E

Start-End date: 01/01/2006 - 31/12/2006

Total amount: 56.200 €

14 Name of the project: Open Distance Inter-university Synergies between Europe, Africa and Middle East (ODISEAME).

Geographical area: European Union

Degree of contribution: Scientific coordinator

Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON

Name principal investigator (PI, Co-PI....): Elena Verdú Pérez

Nº of researchers: 18

Funding entity or bodies:

Comisión Europea

Type of entity: CE

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: EUMEDIS

Code according to the funding entity: EUMEDIS B7-4100/2000/2165-079 p546



Start-End date: 01/09/2002 - 30/06/2006

Participating entity/entities: Anadolu University; CEDETEL (Centro para el Desarrollo de las Telecomunicaciones de Castilla y León); FHTW (Fachhochschule für Technik und Wirtschaft); Frederick Institute of Technology y Cairo University; Institut Agronomique et Vétérinaire Hassan II; Institut Supérieur de Gestion et de Planification; Islamic University of Gaza; Jordan University of Science and Technology; Retecal Interactiva; S.A.; The Hebrew University of Jerusalem; Universidad de Granada; Universidad de Salamanca; University of Cyprus; University of Jordan; University of Malta; University of Valladolid

Total amount: 2.724.743 €

Sub-project amount: 1.137.243 €

Percentage as grant: 80

- 15 Name of the project:** RECREMANIA - The first European Musical On-line Portal for children
Geographical area: European Union
Degree of contribution: Researcher
Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON
Name principal investigator (PI, Co-PI....): Neftis Atallah
Nº of researchers: 4
Funding entity or bodies: Comisión Europea **Type of entity:** CE
City funding entity: Madrid, Community of Madrid, Spain
Name of the programme: Econtent
Code according to the funding entity: EDC 22187
Start-End date: 01/02/2004 - 28/02/2006
Participating entity/entities: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON; LX Editora Ltda; Productions Mary-Josée SA; The Goethe Institut; The Manchester Metropolitan University; Tralarere SA
Total amount: 1.679.323 € **Sub-project amount:** 62.672 €
- 16 Name of the project:** Progressive and adaptive learning for object manipulation: a biologically inspired multi-network architecture (PALOMA)
Geographical area: European Union
Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON
Name principal investigator (PI, Co-PI....): Juan López Coronado
Nº of researchers: 6
Name of the programme: IST- V Framework Programme
Code according to the funding entity: IST-2001-33073
Start-End date: 01/11/2001 - 31/12/2004
Participating entity/entities: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON; Scuola Superiore di Studi Universitari et di Perfezionamento Sant'Anna; Umea University; Universite Pierre et Marie Curie
Total amount: 1.845.563 € **Sub-project amount:** 313.395 €
Percentage as grant: 100
- 17 Name of the project:** Aplicación de tecnologías de información y comunicación a procesos industriales (TICPRO)
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON
Name principal investigator (PI, Co-PI....): Juan P. de Castro Fernández
Nº of researchers: 3

**Funding entity or bodies:**

AGENCIA DE DESARROLLO ECONOMICO DE CASTILLA Y LEON

City funding entity: Spain**Name of the programme:** PCCP**Start-End date:** 2002 - 2002**Participating entity/entities:** CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON; Centro Regional de Servicios Avanzados; DIVISA INFORMATICA Y TELECOMUNICACIONES, S.A.; INSTITUTO TECNOLOGICO DE CASTILLA Y LEON; OKIAKU

18 **Name of the project:** Dictionnaire terminologique Espagnol-Français spécialisé en Sciences Humaines et Sociales

Degree of contribution: Researcher**Entity where project took place:** Universidad de Valladolid **Type of entity:** University**Name principal investigator (PI, Co-PI....):** Antonio Bueno García (U. Valladolid)**Nº of researchers:** 20**Funding entity or bodies:**

Ministerio de Asuntos Exteriores y de Cooperación

Start date: 01/2009**Duration:** 1 year**Participating entity/entities:** Universidad de Valladolid (España) y Université d'Alger (Argelia)**Total amount:** 22.000 €

19 **Name of the project:** QoSABLE: Estrategia para la Gestión de la Calidad de Servicio en Redes de Datos de Banda Ancha para Operadores de Cable

Degree of contribution: Researcher**Entity where project took place:** Universidad de Valladolid **Type of entity:** University**Name principal investigator (PI, Co-PI....):** Rafael Mompó Gómez**Nº of researchers:** 3**Funding entity or bodies:**

Ministerio de Ciencia y Tecnología. Programa de Fomento de la Investigación Técnica (PROFIT)

Start date: 2001**Duration:** 1 year**Participating entity/entities:** Universidad de Valladolid**Total amount:** 43.873,88 €

20 **Name of the project:** Relación entre la calidad de servicio de aplicaciones tipo Internet y la QoS de la red

Degree of contribution: Researcher**Entity where project took place:** CENTRO PARA EL DESARROLLO DE LAS TELECOMUNICACIONES DE CASTILLA Y LEON **Type of entity:** Programa de Fomento de la Investigación Técnica (PROFIT)**Name principal investigator (PI, Co-PI....):** María Jesús Verdú Pérez**Nº of researchers:** 3**Funding entity or bodies:**

Ministerio de Ciencia y Tecnología

Start date: 2001**Participating entity/entities:** CEDETEL**Total amount:** 71.520,4 €



- 21** **Name of the project:** Piloto de Implementación de un paquete Básico de Servicios de telecomunicaciones para PYMEs en un Entorno Rural.
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Rafael Mompó
Nº of researchers: 6
Funding entity or bodies:
Secretaría General de Comunicaciones. Programa PISTA-CABLE
Start date: 2000
Participating entity/entities: Universidad de Valladolid y Universidad de Salamanca
- 22** **Name of the project:** Servicios, Redes y Sistemas para una Intranet Pública
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Miguel López
Nº of researchers: 20
Funding entity or bodies:
Comisión Interministerial de Ciencia y Tecnología **Type of entity:** CICYT
City funding entity: Madrid, Community of Madrid, Spain
Start date: 2000
Participating entity/entities: Universidad de Valladolid
Total amount: 240.044,23 €

R&D non-competitive contracts, agreements or projects with public or private entities

- 1** **Name of the project:** Creación del aula confederación hidrográfica del Duero para el avance de las tecnologías espaciales en la gestión del agua.
Entity where project took place: Universidad de Valladolid
Degree of contribution: Researcher
Entity where project took place: Universidad de Valladolid **Type of entity:** University
City of entity: Valladolid,
Name principal investigator (PI, Co-PI....): Juan Pablo de Castro Fernández N.º investigadores/as: 6
Participating entity/entities: Universidad de Valladolid
Funding entity or bodies:
Confederación Hidrográfica del Duero **Type of entity:** CONHD
City funding entity: Valladolid, Castile and León, Spain
Start date: 01/2011 **Duration:** 11 months
Total amount: 67.640 €
- 2** **Name of the project:** Asesoría técnica y científica en materia de servicios telemáticos
Entity where project took place: Universidad de Valladolid
Degree of contribution: Researcher
Entity where project took place: Universidad de Valladolid
Name principal investigator (PI, Co-PI....): María Jesús Verdú Pérez N.º investigadores/as: 4
Participating entity/entities: Universidad de Valladolid
Funding entity or bodies:
Instituto Universitario de Oftalmología Aplicada(IOBA) a través de la Fundación General de la UVA
Start date: 01/12/2010 **Duration:** 3 years
Total amount: 3.000 €



- 3** **Name of the project:** Investigación y desarrollo de servicios WMS-C, de aplicaciones cliente para la visualización y consulta de servicios de mapas, basadas en la integración de APIs, especialmente las llamadas APIs políglotas, y de servicios de geoprocésamiento
Entity where project took place: Universidad de Valladolid
Degree of contribution: Researcher
Entity where project took place: Universidad de Valladolid **Type of entity:** University
City of entity: Tenerife,
Name principal investigator (PI, Co-PI...): Juan Pablo de Castro Fernández N.º investigadores/as: 6
Participating entity/entities: Universidad de Valladolid
Funding entity or bodies: Instituto Geográfico Nacional **Type of entity:** Public Research Body
City funding entity: Tenerife, Canary Islands, Spain
Start date: 01/2009 **Duration:** 1 year
Total amount: 60.000 €
- 4** **Name of the project:** Primera fase del Convenio de Colaboración para España Virtual
Degree of contribution: Researcher
City of entity: España,
Name principal investigator (PI, Co-PI...): Juan Pablo de Castro Fernández N.º investigadores/as: 6
Participating entity/entities: Universidad de Valladolid
Funding entity or bodies: CENTRO NACIONAL DE INFORMACION GEOGRAFICA
City funding entity: Spain
Start date: 01/2009 **Duration:** 2 years - 11 months
Total amount: 151.525 €
- 5** **Name of the project:** Análisis de una herramienta telemática para desarrollo colectivo en Campos y Torozos
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI...): María Jesús Verdú Pérez N.º investigadores/as: 5
Participating entity/entities: Federación Asociaciones Desarrollo Rural Montes Torozos y Universidad de Valladolid
Funding entity or bodies: Federación Asociaciones Desarrollo Rural Montes Torozos
Start date: 03/2006 **Duration:** 3 months
Total amount: 1.160 €
- 6** **Name of the project:** Dirección técnica del prototipo de una herramienta telemática para desarrollo colectivo en Campos y Torozos
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI...): Juan Pablo de Castro Fernández N.º investigadores/as: 5
Participating entity/entities: Federación Asociaciones Desarrollo Rural Montes Torozos y Universidad de Valladolid
Funding entity or bodies: Federación Asociaciones Desarrollo Rural Montes Torozos
Start date: 03/2006 **Duration:** 3 months
Total amount: 1.740 €



- 7 Name of the project:** Diseño de una herramienta telemática para desarrollo colectivo en Campos y Torozos
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): María Ángeles Pérez Juárez N.º investigadores/as: 5
Participating entity/entities: Federación Asociaciones Desarrollo Rural Montes Torozos y Universidad de Valladolid
Funding entity or bodies:
 Federación Asociaciones Desarrollo Rural Montes Torozos
Start date: 03/2006 **Duration:** 3 months
Total amount: 1.160 €

Results

Industrial and intellectual property

Title registered industrial property: Entorno de realización de pruebas competitivas y colaborativas QUESTOURnament
Inventors/authors/obtainers: Juan P. de Castro; María Á. Pérez; Elena Verdú; María J. Verdú; Luisa M. Regueras
Entity holder of rights: Autores
Nº of application: 00/2009/4399
Country of inscription: Spain
Date of register: 12/02/2009
Conferral date: 12/02/2009

Technological results derived from specialized and transfer activities, not included in previous sections

Description: Creación del spin-off "Enclave Formación S.L"
Name of the Co-principal investigator (Co-PI): E. Verdú B. García M. López J.P. de Castro M.Á. Pérez M.J. Verdú
Degree of contribution: Socia fundadora
Collaborating entity or bodies:
 INZAMAC ASISTENCIAS TENICAS S. A. **Type of entity:** Business
 TECOPY S.A. **Type of entity:** Business
 CEDETEL **Type of entity:** Technological Centre
Start date: 2012
Relevant results: Enclave Formación S.L es una empresa de base tecnológica, que sigue ejerciendo su actividad productiva hoy en día. Se dedica a la consultoría, formación, explotación y comercialización de servicios y productos de teleformación.



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Muhammad Irfan Khattak; Mu'ath Al-Hasan; Atif Jan; Nasir Saleem; Elena Verdú; Numan Khurshid. Automated Detection of COVID-19 using Chest X-Ray Images and CT Scans through Multilayer- Spatial Convolutional Neural Networks. International Journal of Interactive Multimedia and Artificial Intelligence. 6 - 6, pp. 15 - 24. 2021.
DOI: 10.9781/ijimai.2021.04.002
Type of production: Scientific paper
Corresponding author: No
- 2** Sergio Mauricio Martínez Monterrubio; Amaya Noain-Sánchez; Elena Verdú Pérez; Rubén González Crespo. Coronavirus fake news detection via MedOSINT check in health care official bulletins with CBR explanation: The way to find the real information source through OSINT, the verifier tool for official journals. Information Sciences. 574, pp. 210 - 237. 2021.
DOI: 10.1016/j.ins.2021.05.074
Type of production: Scientific paper
Impact source: WOS (JCR) **Category:** COMPUTER SCIENCE, INFORMATION SYSTEMS - SCIE
Impact index in year of publication: 6.795 **Journal in the top 25%:** Yes
Position of publication: 18 **No. of journals in the cat.:** 162
- 3** Subbulakshmi Pasupathi; Shanmuganathan Vimal; Yesudas Harold-Robinson; Manju Khari; Elena Verdú. Energy efficiency maximization algorithm for underwater Mobile sensor networks. Earth Science Informatics. 14, pp. 215 - 225. Springer, 2021.
DOI: 10.1007/s12145-020-00478-1
Type of production: Scientific paper
Position of signature: 5 **Corresponding author:** No
Total no. authors: 6
Impact source: WOS (JCR)
Impact index in year of publication: 1.450
- 4** Alejandro Enciso Bernal; Sergio Mauricio Martínez Monterrubio; Javier Parra Fuente; Rubén González Crespo; Elena Verdú Pérez. Methodology for Computer Security Incident Response Teams into IoT Strategy. KSII Transactions on Internet and Information Systems. 15 - 5, pp. 1909 - 1928. 2021.
DOI: 10.3837/tiis.2021.05.018
Type of production: Scientific paper
Corresponding author: No
Impact source: WOS (JCR) **Category:** COMPUTER SCIENCE, INFORMATION SYSTEMS - SCIE
Impact index in year of publication: 0.858 **No. of journals in the cat.:** 162
Position of publication: 149 **Category:** TELECOMMUNICATIONS - SCIE
Impact source: WOS (JCR)
Impact index in year of publication: 0.858

Position of publication: 85

No. of journals in the cat.: 91

- 5** Meenu Gupta; Rachna Jain; Soham Taneja; Gopal Chaudhary; Manju Khari; Elena Verdú. Real-time measurement of the uncertain epidemiological appearances of COVID-19 infections. Applied Soft Computing. 101, pp. 107039. Elsevier, 2021.

DOI: <https://doi.org/10.1016/j.asoc.2020.107039>

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 6.725

Position of publication: 24

Impact source: WOS (JCR)

Impact index in year of publication: 6.795

Position of publication: 11

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE - SCIE

Journal in the top 25%: Yes

No. of journals in the cat.: 140

Category: COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS - SCIE

Journal in the top 25%: Yes

No. of journals in the cat.: 112

- 6** Nitesh Singh Bhati; Manju Khari; Vicente García-Díaz; Elena Verdú. A Review on Intrusion Detection Systems and Techniques. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems. 28 - 2, pp. 65 - 91. 2020.

DOI: <https://doi.org/10.1142/S0218488520400140>

Type of production: Scientific paper

Corresponding author: Yes

Impact source: WOS(JCR)

Impact index in year of publication: 1.518

Position of publication: 109

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE - SCIE

Journal in the top 25%: No

No. of journals in the cat.: 140

- 7** Aarti Jain; Manju Khari; Elena Verdú; Shigeru Omatsu; Rubén González Crespo. A route selection approach for variable data transmission in wireless sensor networks. Cluster Computing. 23, pp. 1697 - 1709. Springer, 2020.

DOI: 10.1007/s10586-020-03115-0

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Impact source: WOS (JCR)

Impact index in year of publication: 1.809

Position of publication: 50

Impact source: WOS (JCR)

Impact index in year of publication: 1.809

Position of publication: 50

Corresponding author: No

Category: COMPUTER SCIENCE, INFORMATION SYSTEMS - SCIE

No. of journals in the cat.: 110

Category: COMPUTER SCIENCE, THEORY & METHODS - SCIE

No. of journals in the cat.: 110

- 8** Rashmi Gupta; Manju Khari; Vipul Gupta; Elena Verdú; Xing Wu; Rubén González Crespo. Fast Single Image Haze Removal Method for Inhomogeneous Environment Using Variable Scattering Coefficient. CMES-Computer Modeling in Engineering & Sciences. 123 - 3, pp. 1175 - 1192. Tech Science Press, 2020.

DOI: 10.32604/cmcs.2020.010092

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 7

Corresponding author: No



Impact source: WOS (JCR)

Impact index in year of publication: 1.593

Position of publication: 61

Impact source: WOS (JCR)

Impact index in year of publication: 1.593

Position of publication: 71

Category: ENGINEERING, MULTIDISCIPLINARY - SCIE

No. of journals in the cat.: 91

Category: MATHEMATICS, INTERDISCIPLINARY APPLICATIONS - SCIE

No. of journals in the cat.: 108

- 9** Rohit Raj; Pooshkar Rajiv; Prabhat Kumar; Manju Khari; Elena Verdú; Rubén González Crespo; Gunasekaran Manogaran. Feature based video stabilization based on boosted HAAR Cascade and representative point matching algorithm. Image and Vision Computing. 101, pp. 103957. Elsevier, 2020.

DOI: 10.1016/j.imavis.2020.103957

Type of production: Scientific paper

Impact source: WOS(JCR)

Impact index in year of publication: 2.818

Position of publication: 28

Impact source: WOS(JCR)

Impact index in year of publication: 2.818

Position of publication: 29

Impact source: WOS(JCR)

Impact index in year of publication: 2.818

Position of publication: 66

Category: COMPUTER SCIENCE, THEORY & METHODS - SCIE

No. of journals in the cat.: 110

Category: COMPUTER SCIENCE, SOFTWARE ENGINEERING - SCIE

No. of journals in the cat.: 108

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE - SCIE

No. of journals in the cat.: 140

- 10** Salvador Cobos Guzman; Elena Verdú Pérez; Enrique Herrera Viedma; Rubén González Crespo. Fuzzy logic expert system for selecting robotic hands using kinematic parameters. Journal of Ambient Intelligence and Humanized Computing. 11, pp. 1553 - 1564. 2020.

DOI: 10.1007/s12652-019-01229-x

Type of production: Scientific paper

Corresponding author: No

Impact source: WOS (JCR)

Impact index in year of publication: 7.104

Position of publication: 16

Impact source: WOS (JCR)

Impact index in year of publication: 7.104

Position of publication: 21

Impact source: WOS (JCR)

Impact index in year of publication: 7.104

Position of publication: 9

Category: COMPUTER SCIENCE, INFORMATION SYSTEMS - SCIE

Journal in the top 25%: Yes

No. of journals in the cat.: 162

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE - SCIE

Journal in the top 25%: Yes

No. of journals in the cat.: 140

Category: TELECOMMUNICATIONS - SCIE

Journal in the top 25%: Yes

No. of journals in the cat.: 9

- 11** Nasir Saleem; Muhammad Irfan Khattak; Elena Verdú. On Improvement of Speech Intelligibility and Quality: A Survey of Unsupervised Single Channel Speech Enhancement Algorithms. *International Journal of Interactive Multimedia and Artificial Intelligence*. 6 - 2, pp. 78 - 89. 2020.
DOI: 10.9781/ijimai.2019.12.001
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 3
Impact source: WOS (JCR)
Impact index in year of publication: 3.137
Position of publication: 55
Impact source: WOS (JCR)
Impact index in year of publication: 3.137
Position of publication: 58
Format: Journal
Corresponding author: No
Category: COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS - SCIE
No. of journals in the cat.: 112
Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE - SCIE
No. of journals in the cat.: 140
- 12** Manju Khari; Anunay Sinha; Elena Verdú; Rubén González Crespo. Performance analysis of six meta-heuristic algorithms over automated test suite generation for path coverage-based optimization. *Soft Computing*. 24, pp. 9143 - 9160. 2020.
DOI: 10.1007/s00500-019-04444-y
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 4
Impact source: WOS (JCR)
Impact index in year of publication: 3.643
Position of publication: 48
Impact source: WOS (JCR)
Impact index in year of publication: 3.643
Position of publication: 49
Corresponding author: No
Category: COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS - SCIE
No. of journals in the cat.: 112
Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE - SCIE
No. of journals in the cat.: 140
- 13** Fernando López Hernández; Elena Verdú Pérez; J. Javier Rainer Granados; Rubén González Crespo. A Nondisturbing Service to Automatically Customize Notification Sending Using Implicit-Feedback. *Scientific Programming*. 2019 - 1293194, 2019.
DOI: 10.1155/2019/1293194
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 1.289
Position of publication: 65
Category: COMPUTER SCIENCE, SOFTWARE ENGINEERING
Journal in the top 25%: No
No. of journals in the cat.: 107
- 14** Luisa M. Regueras; María Jesús Verdú; Juan P. de Castro; Elena Verdú. Clustering Analysis for Automatic Certification of LMS Strategies in a University Virtual Campus. *IEEE Access*. 7, pp. 137680 - 137690. IEEE, 2019. Available on-line at: <<https://ieeexplore.ieee.org/document/8846693>>.
DOI: 10.1109/ACCESS.2019.2943212
Type of production: Scientific paper
Position of signature: 4
Format: Journal



Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 4.098

Position of publication: 19

Impact source: ISI

Impact index in year of publication: 4.098

Position of publication: 23

Impact source: ISI

Impact index in year of publication: 4.098

Position of publication: 52

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - TELECOMMUNICATIONS

Journal in the top 25%: Yes

No. of journals in the cat.: 88

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

Journal in the top 25%: Yes

No. of journals in the cat.: 155

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: Yes

No. of journals in the cat.: 266

- 15** Elena Verdú. Editor's Note. International Journal of Interactive Multimedia and Artificial Intelligence. 5 - 5, pp. 4 - 5. 2019.

DOI: 10.9781/ijimai.2019.05.004

Type of production: Scientific paper

- 16** Rubén González Crespo; Elena Verdú. Editor's Note. International Journal of Interactive Multimedia and Artificial Intelligence. 5 - 7, pp. 4 - 5. 2019.

DOI: 10.9781/ijimai.2019.10.006

Type of production: Scientific paper

- 17** Manju Khari; Aditya Kumar Garg; Rubén González Crespo; Elena Verdú Pérez. Gesture Recognition of RGB and RGB-D Static Images Using Convolutional Neural Networks. International Journal of Interactive Multimedia and Artificial Intelligence. 5 - 7, pp. 22 - 27. 2019.

DOI: 10.9781/ijimai.2019.09.002

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 4

Impact source: WOS (JCR)

Impact index in year of publication: 2.561

Position of publication: 52

Impact source: WOS (JCR)

Impact index in year of publication: 2.561

Position of publication: 62

Corresponding author: No

Category: Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS

Journal in the top 25%: No

No. of journals in the cat.: 109

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: No

No. of journals in the cat.: 136

- 18** Nasir Saleem; Muhammad Irfan Khattak; Elena Verdú Pérez. Spectral Phase Estimation Based on Deep Neural Networks for Single Channel Speech Enhancement. Journal of Communications Technology and Electronics. 64 - 12, pp. 1372 - 1382. 2019.

DOI: 10.1134/S1064226919120155

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 3

Impact source: ISI

Corresponding author: Yes



Impact index in year of publication: 0.51
Position of publication: 252

Impact source: ISI
Impact index in year of publication: 0.51
Position of publication: 87

Category: ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No
No. of journals in the cat.: 266

Category: TELECOMMUNICATIONS
Journal in the top 25%: No
No. of journals in the cat.: 88

- 19** Juan I. Castillo Tello; Elena Verdú Pérez; Javier Rainier Granados. Analysis and Evaluation of Discussion Forums in the Teaching Process of Industrial Organization Engineering. International Journal of Engineering Education. 34 - 4, pp. 1261 - 1272. 2018.

Type of production: Scientific paper
Position of signature: 2

Total no. authors: 3

Impact source: JCR

Impact index in year of publication: 0.575

Position of publication: 73

Format: Journal

Corresponding author: No

Category: ENGINEERING, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 86

- 20** Alfredo Corell; Luisa M. Regueras; Elena Verdú; María J. Verdú; J.P. de Castro. Effects of competitive learning tools on medical students: A case study. PLOS ONE. 13 - 3, 2018.

DOI: <https://doi.org/10.1371/journal.pone.0194096>

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Impact source: JCR

Impact index in year of publication: 2.766

Position of publication: 15

Format: Journal

Corresponding author: No

Category: MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 64

- 21** Elena Verdú Pérez; B. Cristina Pelayo G-Bustelo; M. Ángeles Martínez Sánchez; Rubén González Crespo. A System to Generate SignWriting for Video Tracks Enhancing Accessibility of Deaf People. International Journal of Interactive Multimedia and Artificial Intelligence. 4 - 6, pp. 109 - 115. 12/2017.

DOI: 10.9781/ijimai.2017.09.002

Type of production: Scientific paper

Corresponding author: Yes

Format: Journal

- 22** Elena Verdú. Editor's Note. International Journal of Interactive Multimedia and Artificial Intelligence. 4 - 6, pp. 4 - 5. 2017.

DOI: 10.9781/ijimai.2017.09.003

Type of production: Scientific paper

- 23** Elena Verdú Pérez; Luisa María Regueras; Eran Gal; Juan Pablo de Castro; María Jesús Verdú; Dan Kohen-Vacs. Integration of an intelligent tutoring system in a course of computer network design. Educational Technology Research and Development. 65 - 3, pp. 653 - 677. Springer, 2017. ISSN 1042-1629

DOI: 10.1007/s11423-016-9503-0

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Impact source: JCR

Corresponding author: No

Category: EDUCATION AND EDUCATIONAL RESEARCH



Impact index in year of publication: 1.728
Position of publication: 80

Journal in the top 25%: No
No. of journals in the cat.: 239

- 24** Elena Verdú. Editor's Note. International Journal of Interactive Multimedia and Artificial Intelligence. 4 - 2, pp. 4 - 5. 2016.

DOI: 10.9781/ijimai.2016.420

Type of production: Scientific paper

- 25** Ricardo García; Elena Verdú; Luisa M. Regueras; Juan P. de Castro; María Jesús Verdú. A neural network based intelligent system for tile prefetching in web map services. Expert Systems with Applications. 40 - 10, pp. 4096 - 4105. Elsevier, 2013. Available on-line at: <<http://dx.doi.org/10.1016/j.eswa.2013.01.037>>. ISSN 0957-4174

DOI: 10.1016/j.eswa.2013.01.037

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Impact index in year of publication: 1.965

Journal in the top 25%: Yes

Position of publication: 30

No. of journals in the cat.: 121

- 26** Ricardo García; Juan P. de Castro; Elena Verdú; María J. Verdú; Luisa M. Regueras. An OLS regression model for context-aware tile prefetching in a web map cache. International Journal of Geographical Information Science. 27 - 3, pp. 614 - 632. 2013. Available on-line at: <<http://dx.doi.org/10.1080/13658816.2012.721555>>. ISSN 1365-8816

Type of production: Scientific paper

Format: Journal

Position of signature: 3

Total no. authors: 5

Impact source: ISI

Category: COMPUTER SCIENCE, INFORMATION SYSTEMS

Impact index in year of publication: 1.479

Position of publication: 45

No. of journals in the cat.: 135

- 27** Elena Verdú; Luisa M. Regueras; María J. Verdú; José P. Leal; Juan P. de Castro; Ricardo Queiros. A distributed system for learning programming on-line. Computers and Education. 58 - 1, pp. 1 - 10. Elsevier, 2012. Available on-line at: <<http://dx.doi.org/10.1016/j.compedu.2011.08.015>>. ISSN 0360-1315

DOI: 10.1016/j.compedu.2011.08.015

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS

Impact index in year of publication: 2.775

Journal in the top 25%: Yes

Position of publication: 15

No. of journals in the cat.: 100

- 28** Elena Verdú; María J. Verdú; Luisa M. Regueras; Juan P. de Castro; Ricardo García. A genetic fuzzy expert system for automatic question classification in a competitive learning environment. Expert Systems with Applications. 39 - 8, pp. 7471 - 7478. Elsevier, 2012. Available on-line at: <<http://dx.doi.org/10.1016/j.eswa.2012.01.115>>. ISSN 0957-4174

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 5

**Impact source:** ISI**Impact index in year of publication:** 1.854**Position of publication:** 56**Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC**Journal in the top 25%:** Yes**No. of journals in the cat.:** 243

- 29** Ricardo García; Juan P. de Castro; María Jesús Verdú; Elena Verdú; Luisa M. Regueras; Pablo López. A Descriptive Model Based on the Mining of Web Map Server Logs for Tile Prefetching in a Web Map Cache. International Journal of Systems Applications. 5 - 4, pp. 469 - 476. 2011. ISSN 2074-1308

Type of production: Scientific paper**Format:** Journal**Position of signature:** 4**Total no. authors:** 5

- 30** Ricardo García; Juan P. de Castro; María Jesús Verdú; Elena Verdú; Luisa M. Regueras; Pablo López. An Adaptive Neural Network-Based Method for Tile Replacement in a Web Map Cache. Lecture Notes in Computer Sciences. 6782, pp. 76 - 91. 2011. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-21928-3_6>.

DOI: 10.1007/978-3-642-21928-3_6**Type of production:** Scientific paper**Format:** Journal

- 31** Luisa M. Regueras; Elena Verdú; María Jesús Verdú; Juan P. de Castro. Design of a Competitive and Collaborative Learning Strategy in a Communication Networks Course. IEEE TRANSACTIONS ON EDUCATION. 54 - 2, pp. 302 - 307. 2011. Available on-line at: <<http://dx.doi.org/10.1109/TE.2010.2053933>>. ISSN 0018-9359

DOI: 10.1109/TE.2010.2053933**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 4**Impact source:** ISI**Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC**Impact index in year of publication:** 1.021**Position of publication:** 122**No. of journals in the cat.:** 245

- 32** Luisa M. Regueras; Elena Verdú; María F. Muñoz; María A. Pérez; Juan P. de Castro; María J. Verdú. Effects of Competitive E-Learning Tools on Higher Education Students: A Case Study. IEEE Transactions on Education. 52 - 2, pp. 279 - 285. 2009. Available on-line at: <<http://dx.doi.org/10.1109/TE.2008.928198>>. ISSN 0018-9359

DOI: 10.1109/TE.2008.928198**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 5**Impact source:** ISI**Category:** Science Edition - EDUCATION, SCIENTIFIC DISCIPLINES**Impact index in year of publication:** 0.822**Position of publication:** 13**No. of journals in the cat.:** 27

- 33** Elena Verdú; Luisa M. Regueras; María Jesús Verdú; Juan P. de Castro; María A. Pérez. An Analysis of the Research on Adaptive Learning: The Next Generation of e-Learning. WSEAS TRANSACTIONS on INFORMATION SCIENCE & APPLICATIONS. 5 - 6, pp. 859 - 868. 2008. ISSN 1790-0832

Type of production: Scientific paper**Format:** Journal

- 34** Luisa M. Regueras; Elena Verdú; María J. Verdú; María A. Pérez; Juan P. de Castro. Motivating Students through On-Line Competition: An Analysis of Satisfaction and Learning Styles. Lecture Notes in Computer Science. 5145, pp. 167 - 177. 2008. Available on-line at: <http://dx.doi.org/10.1007/978-3-540-85033-5_17>. ISSN 0302-9743

Type of production: Scientific paper**Format:** Journal



- 35** Luisa M. Regueras; Elena Verdú; María A. Pérez; Juan P. de Castro; María Jesús Verdú. An applied project of ICT-based active learning for the new model of university education. *International Journal of Continuing Engineering Education and Life-Long Learning (IJCEELL)*. 17 - 6, pp. 447 - 460. 2007. Available on-line at: <<http://dx.doi.org/10.1504/IJCEELL.2007.015593>>. ISSN 1560-4624
Type of production: Scientific paper **Format:** Journal
- 36** Elena Verdú; María J. Verdú. E-Learning University Networks: An Approach to a Quality Open Education. *Journal of Cases on Information Technology*. 9 - 2, pp. 12 - 25. 2007. Available on-line at: <<http://dx.doi.org/10.4018/jcit.2007040102>>. ISSN 1548-7717
Type of production: Scientific paper **Format:** Journal
- 37** Elena Verdú; María J. Verdú; Luisa M. Regueras; Juan P. de Castro. Intercultural and Multilingual E-Learning to Bridge the Digital Divide. *Lecture Notes in Computer Sciences*. 3597, pp. 260 - 269. 2005. Available on-line at: <http://dx.doi.org/10.1007/11527725_27>. ISSN 0302-9743
DOI: 10.1007/11527725_27
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, THEORY & METHODS
Impact index in year of publication: 0.402
Position of publication: 62 **No. of journals in the cat.:** 71
- 38** Martínez Navarro; Verdú; Moreno Ger. Mining Pre-Grade Academic and Demographic Data to Predict University Dropout. *Radical Solutions for Digital Transformation in Latin American Universities*. pp. 197 - 215. Springer, 2021. ISBN 978-981-16-3941-8
DOI: 10.1007/978-981-16-3941-8_11
Type of production: Book chapter
Position of signature: 2
Total no. authors: 3 **Corresponding author:** No
- 39** Flor Nancy Díaz de Piraquive; Óscar Sanjuán Martínez; Elena Verdú Pérez; Rubén González Crespo. Knowledge Management Model for Project Management: KM+PMTIC. *Construction Projects: Improvement Strategies, Quality Management and Potential Challenges*. pp. 55 - 92. New York(United States of America): Nova Science Publishers, 2017. ISBN 978-1-53610-742-5
Type of production: Book chapter **Format:** Book
Position of signature: 3 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 4 **Corresponding author:** Yes
- 40** Gustavo Millán García; Elena Verdú Pérez; Oscar Sanjuán Martínez; Rubén González Crespo. Strategic Reuse of Software Designs Using Stable Logical Infrastructures. *Horizons in Computer Science Research*. 13, pp. 29 - 63. New York(United States of America): Nova Science Publishers, 2017. ISBN 978-1-53610593-3
Type of production: Book chapter **Format:** Book
Position of signature: 2 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 4 **Corresponding author:** Yes
- 41** Stefan Zander; Christian Swertz; Elena Verdú; María Jesús Verdú; Peter Henning. A Semantic MediaWiki-Based Approach for the Collaborative Development of Pedagogically Meaningful Learning Content Annotations. *Lecture Notes in Computer Science*. 9507, pp. 73 - 111. Springer, 2016. ISBN 978-3-319-32667-2
DOI: 10.1007/978-3-319-32667-2_5
Type of production: Book chapter **Format:** Book

Position of signature: 3

Total no. authors: 5

- 42** Ricardo García; Juan P. de Castro; Elena Verdú; María J. Verdú; Luisa M. Regueras. Web Map Tile Services for Spatial Data Infrastructures: Management and Optimization. Cartography - A Tool for Spatial Analysis. pp. 25 - 48. InTech, 2012. Available on-line at: <<http://dx.doi.org/10.5772/46129>>. ISBN 978-953-51-0689-0
Type of production: Book chapter **Format:** Book
Position of signature: 3
Total no. authors: 5
- 43** Elena Verdú; Rubén M. Lorenzo. Effective Strategies for Learning: Collaboration and Competition. A New Learning Paradigm: Competitions supported by Technology. pp. 11 - 40. Sello Editorial, 2010. ISBN 978-84-937580-3-5
Type of production: Book chapter **Format:** Book
Degree of contribution: Author or co-author of chapter in book
- 44** Juan P. de Castro; Miguel Baraja; María J. Verdú; María A. Pérez; Luisa M. Regueras; Elena Verdú. Installation of EduJudge and QUESTOURnament components in Moodle. EduJudge System Handbook: How to organize programming competitions in Moodle courses. pp. 15 - 49. Sello Editorial, 2010. ISBN 978-84-937580-4-2
Type of production: Book chapter **Format:** Book
- 45** Juan P. de Castro; María J. Verdú; Luisa M. Regueras; Elena Verdú. Introduction to the EduJudge System. EduJudge System Handbook: How to organize programming competitions in Moodle courses. pp. 7 - 14. Sello Editorial, 2010. ISBN 978-84-937580-4-2
Type of production: Book chapter **Format:** Book
- 46** María J. Verdú; Elena Verdú; María A. Pérez; Juan P. de Castro; Luisa M. Regueras; Valentina Dagiene; Bronius Skupas. Making a contest with EduJudge and QUESTOURnament. EduJudge System Handbook: How to organize programming competitions in Moodle courses. pp. 99 - 128. Sello Editorial, 2010. ISBN 978-84-937580-4-2
Type of production: Book chapter **Format:** Book
- 47** Elena Verdú; Juan P. de Castro; María J. Verdú; María A. Pérez; Luisa M. Regueras. The Next Generation of Competitive E-learning: The Adaptive Competitive Systems. A New Learning Paradigm: Competitions supported by Technology. pp. 41 - 62. Sello Editorial, 2010. ISBN 978-84-937580-3-5
Type of production: Book chapter **Format:** Book
- 48** Luisa M. Regueras; Elena Verdú; María J. Verdú; María A. Pérez; Juan P. de Castro. Using EduJudge with the quizzes for evaluation. EduJudge System Handbook: How to organize programming competitions in Moodle courses. pp. 81 - 98. Sello Editorial, 2010. ISBN 978-84-937580-4-2
Type of production: Book chapter **Format:** Book
- 49** Antonio Bueno; C. Adrada; S. Álvarez; Rocío Anguiano; Miriam Antón; Laurence Boudart; A.M. Calvo; A. Escartín; J.P. de Castro; C. Cuéllar; Z. Díaz; J.C. Frechoso; J.A. García-Medall; A.M. Mallo; M. A. Pérez; Luisa M. Regueras; Elena Verdú; María J. Verdú; V. del Villar. Aplicación de Metodologías Colaborativas y Competitivas de Elearning 2.0 en asignaturas técnicas y de humanidades: una aproximación al EEES. Innovación Docente: Docencia y TICs. pp. 53 - 64. Universidad de Valladolid, 2008. ISBN 978-84-691-5535-6
Type of production: Book chapter **Format:** Book
- 50** Luisa M. Regueras; Elena Verdú; María A. Pérez; Juan P. de Castro; María J. Verdú. E-learning 2.0: The Learning Community. Advances in E-Learning: Experiences and Methodologies. pp. 212 - 231. Information Science Reference (Idea Group Inc), 2008. ISBN 978-1-59904-756-0
Type of production: Book chapter **Format:** Book



- 51** Elena Verdú; Luisa M. Regueras; María J. Verdú; Juan P. de Castro; María A. Pérez. Telematic Environments and Competition Based Methodologies: an Approach to Active Learning. Advances in E-Learning: Experiences and Methodologies. pp. 232 - 249. Information Science Reference (Idea Group Inc), 2008. ISBN 978-1-59904-756-0
Type of production: Book chapter **Format:** Book
- 52** Juan Pablo de Castro; Elena Verdú. The E-learning Platform as a Key to Success: Evaluation of the ODISEAME E-learning Platform. Best Practices in E-learning: Towards a Technology-Based and Quality Education. pp. 85 - 99. Boecillo Editora Multimedia, 2006. ISBN 84-690-1118-9
Type of production: Book chapter **Format:** Book
Degree of contribution: Author or co-author of chapter in book
- 53** Elena Verdú; Rubén M. Lorenzo; Miguel Ángel Revilla; Luisa M. Regueras. A New Learning Paradigm: Competitions supported by Technology. Sello Editorial, 2010. ISBN 978-84-937580-3-5
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor
- 54** Elena Verdú; María J. Verdú; Joaquín García; Ricardo López. Best Practices in E-learning: Towards a Technology-Based and Quality Education. Boecillo Editora Multimedia, 2006. ISBN 84-690-1118-9
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor
- 55** Francisco J. García; Joaquín García; Miguel López; Ricardo López; Elena Verdú. Educational Virtual Spaces in Practice. The ODISEAME Approach. Ariel, 2005. ISBN 84-344-2659-5
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor

Works submitted to national or international conferences

- 1** **Title of the work:** Artificial Neural Networks, Overview and Applications
Name of the conference: INTERNATIONAL E-CONFERENCE ON RECENT INNOVATION IN ENGINEERING & TECHNOLOGY
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote talk
City of event: India
Date of event: 2021
Organising entity: Dr. Akhilesh Das Gupta Institute of Technology & Management
City organizing entity: New Delhi, India
Elena Verdú Pérez.
- 2** **Title of the work:** Understanding the usage of online forums in engineering: A case study in industrial organization
Name of the conference: 2018 IEEE Global Engineering Education Conference (EDUCON)
Corresponding author: No
City of event: Santa Cruz de Tenerife, Canary Islands, Spain
Date of event: 2018
Organising entity: University of La Laguna, University de Vigo and National University of Distance Education, Spain
Juan I. Tello; Elena Verdú; Javier Rainier. "Understanding the usage of online forums in engineering: A case study in industrial organization".



- 3** **Title of the work:** Social4all: Collaborative platform for improving Web accessibility
Name of the conference: XVII International Conference on Human Computer Interaction
City of event: Salamanca, Spain
Date of event: 09/2016
Rubén González Crespo; Jordán Pascual Espada; Daniel Burgos; Elena Verdú Pérez. (United States of America): ACM, ISBN 978-1-4503-4119-6
DOI: 10.1145/2998626.2998629
- 4** **Title of the work:** Intelligent Tutoring Interface for Technology Enhanced Learning in a Course of Computer Network Design
Name of the conference: 2014 IEEE Frontiers in Education Conference (CORE B)
City of event: Madrid, Spain
Date of event: 10/2014
Organising entity: IEEE
Elena Verdú Pérez; Luisa M. Regueras Santos; María J. Verdú Pérez; Juan Pablo de Castro; Dan Kohen-Vacs; Eran Gal; M. Ronen. Available on-line at: <<http://dx.doi.org/10.1109/FIE.2014.7044139>>.
- 5** **Title of the work:** Learning Pathway Recommendation based on a Pedagogical Ontology and its Implementation in Moodle
Name of the conference: DeLFI 2014 (Die e-Learning Fachtagung Informatik 2014)
City of event: Freiburg, Germany
Date of event: 09/2014
Organising entity: Universität Freiburg **Type of entity:** University
City organizing entity: Freiburg, Germany
- 6** **Title of the work:** Modelo Cognitivo para la Docencia de Diseño de Redes Mediante Un Sistema de E-Learning Inteligente
Name of the conference: XI Jornadas de Ingeniería Telemática (JITEL 2013)
City of event: Granada, Andalusia, Spain
Date of event: 28/10/2013
End date: 30/10/2013
Elena Verdú Pérez; Luisa María Regueras Santos; María Jesús Verdú Pérez; Juan Pablo de Castro Fernández.
- 7** **Title of the work:** Intelligent Tutoring Interface for Technology Enhanced Learning with Moodle.
Name of the conference: International Conference on Education and New Learning Technologies
City of event: Barcelona, Catalonia, Spain
Date of event: 01/07/2013
End date: 03/07/2013
Elena Verdú Pérez; Juan Pablo de Castro Fernández; María Jesús Verdú Pérez; Luisa María Regueras Santos.
- 8** **Title of the work:** Automatic Classification of Question Difficulty Level: Teachers' Estimation vs. Students' Perception
Name of the conference: 42nd ASEE/IEEE Frontiers in Education Conference – FIE 2012 (CORE A)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Seattle, United States of America
Date of event: 03/10/2012
End date: 06/10/2012
Elena Verdú; Luisa M. Regueras; María J. Verdú; Juan P. de Castro; Ricardo García. Available on-line at: <<http://dx.doi.org/10.1109/FIE.2012.6462398>>.



- 9** **Title of the work:** Estrategias de Metatiling para la Aceleración de Servicios de Mapas Teselados en las Infraestructuras de Datos Espaciales
Name of the conference: X Jornadas de Ingeniería Telemática (JITEL 2011)
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Santander, Spain
Date of event: 28/09/2011
End date: 30/09/2011
Ricardo García; Juan P. de Castro; María J. Verdú; Elena Verdú; Luisa M. Regueras; Pablo López.
- 10** **Title of the work:** Sistema Blended-Learning para la Gestión de Cuestionarios
Name of the conference: II Jornadas de Innovación Educativa en Ingeniería Telemática (JIE 2011)
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Santander, Spain
Date of event: 28/09/2011
End date: 30/09/2011
Elena Verdú Pérez; Luisa Regueras; Juan Pablo de Castro Fernández; María Jesús Verdú Pérez.
- 11** **Title of the work:** Utilización de datos geográficos auxiliares para la optimización de caches espaciales
Name of the conference: X Jornadas de Ingeniería Telemática (JITEL 2011)
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Santander, Spain
Date of event: 28/09/2011
End date: 30/09/2011
Pablo López; Ricardo García; Juan P. de Castro; María J. Verdú; Luisa M. Regueras; Elena Verdú.
- 12** **Title of the work:** A Cache Replacement Policy Based on Neural Networks Applied to Map Tile Caching
Name of the conference: The 2011 International Conference on Internet Computing, ICOMP 2011 (top 7,17% del índice Computer Science Conference Ranking en el área Databases / Knowledge and Data Management / Data Security / Web / Mining) – WORLDCOMP 2011 (CORE C)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Las Vegas, United States of America
Date of event: 18/07/2011
End date: 21/07/2011
Ricardo García; Juan P. de Castro; María J. Verdú; Elena Verdú; Luisa M. Regueras; Pablo López.
- 13** **Title of the work:** An Adaptive Neural Network-Based Method for Tile Replacement in a Map Cache
Name of the conference: The 11th International Conference on Computational Science and Applications, ICCSA 2011 (CORE C, en el rank 3 del Computer Science Conference Ranking de la University of Alberta, top 66% del índice CiteSEER)
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Santander, Spain
Date of event: 20/06/2011
End date: 23/06/2011
Ricardo García; Juan P. de Castro; María J. Verdú; Elena Verdú; Luisa M. Regueras; Pablo López.
Available on-line at: <http://dx.doi.org/10.1007/978-3-642-21928-3_6>.



- 14** **Title of the work:** Definición e implementación de soluciones basadas en APIs universales para la integración de estándares OGC
Name of the conference: V Jornadas de SIG libre
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Girona, Spain
Date of event: 23/03/2011
End date: 25/03/2011
Pablo López; Ricardo García; Juan P. de Castro; María J. Verdú; Luisa M. Regueras; Elena Verdú.
- 15** **Title of the work:** Integración de APIs políglotas de mapas en Google Web Toolkit: IDELabMapstraction GWT
Name of the conference: V Jornadas de SIG libre
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Girona, Spain
Date of event: 23/03/2011
End date: 25/03/2011
Pablo López; Ricardo García; Juan P. de Castro; María J. Verdú; Luisa M. Regueras; Elena Verdú.
- 16** **Title of the work:** Visualización geográfica 3D mediante un API Universal y políglota. Acercando los globos virtuales al desarrollador de mashups de mapas
Name of the conference: V Jornadas de SIG libre
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Girona, Spain
Date of event: 23/03/2011
End date: 25/03/2011
Ricardo García; Juan P. de Castro; María J. Verdú; Elena Verdú; Luisa M. Regueras; Pablo López.
- 17** **Title of the work:** WMSCWrapper: caché de teselas OpenSource para la aceleración de servicios de mapas teselados
Name of the conference: V Jornadas de SIG libre
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Girona, Spain
Date of event: 23/03/2011
End date: 25/03/2011
Ricardo García; Juan P. de Castro; María J. Verdú; Elena Verdú; Luisa M. Regueras; Pablo López.
- 18** **Title of the work:** A Descriptive Model for Predicting Popular Areas in a Web Map
Name of the conference: The 10th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases, AIKED 2011
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Cambridge, United Kingdom
Date of event: 20/02/2011
End date: 22/02/2011
Ricardo García; Juan P. de Castro; María J. Verdú; Elena Verdú; Luisa M. Regueras; Pablo López.



- 19** **Title of the work:** A Diversity-Enhanced Genetic Algorithm to Characterize the Questions of a Competitive e-Learning System
Name of the conference: 10th IEEE International Conference on Advanced Learning Technologies, ICALT 2010 (CORE A)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Sousse, Tunisia
Date of event: 05/07/2010
End date: 07/07/2010
Elena Verdú; María J. Verdú; Luisa M. Regueras; Juan P. de Castro 13. Available on-line at: <<http://dx.doi.org/10.1109/ICALT.2010.15>>.
- 20** **Title of the work:** Estimating the Difficulty Level of the Challenges Proposed in a Competitive e-Learning Environment
Name of the conference: The Twenty Third International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems, IEA/AIE 2010 (top 7,26% del índice Computer Science Conference Ranking en el área Artificial Intelligence / Machine Learning, CORE B)
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Córdoba, Spain
Date of event: 01/06/2010
End date: 04/06/2010
Elena Verdú; Luisa M. Regueras; María J. Verdú; Juan P. de Castro; .Available on-line at: <http://dx.doi.org/10.1007/978-3-642-13022-9_23>.
- 21** **Title of the work:** A Proposal of User Interface for a Distributed Asynchronous Remote Evaluation System: An Evolution of the QUESTOURnament Tool
Name of the conference: 9th IEEE International Conference on Advanced Learning Technologies, ICALT 2009 (CORE A)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Riga, Latvia
Date of event: 15/07/2009
End date: 17/07/2009
Luisa M. Regueras; Elena Verdú; Juan P. de Castro; María Á. Pérez; María J. Verdú. Available on-line at: <<http://dx.doi.org/10.1109/ICALT.2009.98>>.
- 22** **Title of the work:** Design of a User Interface for a Distributed Programming Contests System with Pedagogical Functionalities
Name of the conference: Computer Assisted Learning (CAL) 09 – ‘Learning in Digital Worlds’
Geographical area: European Union
Type of participation: 'Participatory - poster
City of event: Brighton, United Kingdom
Date of event: 23/03/2009
End date: 25/03/2009
J. P. de Castro; E. Verdú; L. M. Regueras; M. A. Pérez; M. J. Verdú.
- 23** **Title of the work:** Motivating Students through On-Line Competition: An Analysis of Satisfaction and Learning Styles
Name of the conference: The 7th International Conference on based Learning (ICWL 2008)
Geographical area: Non EU International
Type of participation: Participatory - oral communication



City of event: Jinhua, China

Date of event: 20/08/2008

End date: 22/08/2008

L. M. Regueras Santos; E. Verdú Pérez; M. J. Verdú Pérez; M. Á. Pérez; J. P. de Castro Fernández.

Available on-line at: <http://dx.doi.org/10.1007/978-3-540-85033-5_17>.

24 Title of the work: Design of a Distributed and Asynchronous System for Remote Evaluation of Students' Submissions in Competitive Elearning

Name of the conference: International Conference on Engineering Education (ICEE) 2008

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Pécs - Budapest, Hungary

Date of event: 27/07/2008

End date: 31/07/2008

L. M. Regueras Santos; E. Verdú Pérez; J. P. de Castro Fernández; M. Á. Pérez; M. J. Verdú Pérez.

25 Title of the work: Application of Intelligent Adaptive Systems in a Competitive Learning Environment

Name of the conference: IADIS Multi Conference on Computer Science and Information Systems - e-Learning 2008

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Amsterdam, Holland

Date of event: 22/07/2008

End date: 25/07/2008

E. Verdú Pérez; L. M. Regueras Santos; M. J. Verdú Pérez; J. P. de Castro Fernández; M. Á. Pérez.

26 Title of the work: Is Adaptive Learning Effective? A Review of the Research

Name of the conference: 7th WSEAS Int. Conf. on Applied Computer & Applied Computational Science (ACACOS '08)

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Hangzhou, China

Date of event: 06/04/2008

End date: 08/04/2008

E. Verdú Pérez; L. M. Regueras Santos; M. J. Verdú Pérez; J. P. de Castro; M. A. Pérez Juárez.

27 Title of the work: QUEST (Quest Environment for Self-managed Training): Motivación a Través de la Competitividad

Name of the conference: I MoodleMoot de Castilla y León 2008

Geographical area: Regional

Type of participation: Participatory - oral communication

City of event: Peñaranda de Bracamonte, Salamanca, Spain

Date of event: 25/01/2008

End date: 25/01/2008

28 Title of the work: Aplicación de un Sistema Telemático de Aprendizaje Activo y Competitivo en el Área de Ingeniería Telemática

Name of the conference: VI Jornadas de Ingeniería Telemática (JITEL 2007)

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Málaga, Spain



Date of event: 17/09/2007

End date: 19/09/2007

E. Verdú; L. M. Regueras; M. J. Verdú; M. Á. Pérez; J. P. de Castro.

- 29** **Title of the work:** E-learning Strategies to Support Databases Courses: a Case Study
Name of the conference: eUniverSALearning – First International Conference on Technology, Training and Communication
Geographical area: European Union
Type of participation: Participatory - oral communication
City of event: Salamanca, Spain
Date of event: 12/09/2007
End date: 15/09/2007
L. M. Regueras; E. Verdú; M. J. Verdú; M. Á. Pérez; J. P. de Castro.

- 30** **Title of the work:** Aprendizaje Activo en los Estudios Universitarios: Motivación a través de la Competitividad
Name of the conference: 15º Congreso Universitario de Innovación Educativa en las Enseñanzas Técnicas CUIEET
Geographical area: Regional
Type of participation: Participatory - oral communication
City of event: Valladolid, Spain
Date of event: 18/07/2007
End date: 20/07/2007
L. M. Regueras; J. P. de Castro; M. Á. Pérez; M. J. Verdú; E. Verdú.

- 31** **Title of the work:** The Impact of Competitive E-learning Tools on Motivation and Outcomes of Higher Education Students
Name of the conference: Computer Assisted Learning (CAL'07) – 'Development, Disruption and Debate'
Geographical area: European Union
Type of participation: Participatory - poster
City of event: Dublín, Ireland
Date of event: 26/03/2007
End date: 28/03/2007
L. M. Regueras; E. Verdú; M. J. Verdú; J. P. de Castro; M. Á. Pérez.

R&D management and participation in scientific committees

Evaluation and revision of R&D projects and articles

- 1** **Performed tasks:** Revisora de artículos para la revista International Journal of Literature and Arts
Start-End date: 2019 - 2019
- 2** **Performed tasks:** Revisión de artículos para 2008 Frontiers in Education Conference
Start-End date: 2008 - 2008
- 3** **Performed tasks:** Revisora de artículos para la revista IEEE Latin America Transactions
Start date: 2019



- 4** **Performed tasks:** Revisora de artículos para la revista Mathematical Problems in Engineering
Start date: 2019
- 5** **Performed tasks:** Revisora de artículos para la revista Journal of Ambient Intelligence and Humanized Computing
Geographical area: Non EU International
Start date: 2018
- 6** **Performed tasks:** Revisora de artículos de la revista IEEE Transactions on Learning Technologies
Start date: 2016
- 7** **Performed tasks:** Revisora de artículos para la revista Applied Soft Computing
Geographical area: Non EU International
Start date: 2016
- 8** **Performed tasks:** Revisora de artículos para la revista International Journal of Interactive Multimedia and Artificial Intelligence
Geographical area: Non EU International
Start date: 2015
- 9** **Performed tasks:** Revisora de artículos para la revista Computers & Education
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 2012
- 10** **Performed tasks:** Revisora de artículos para la revista IEEE Transactions on Education
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 2011
- 11** **Performed tasks:** Revisora de capítulos para el libro Advances in E-learning: Experiences and Methodologies
Type of activity: Participation in editorial committees
Geographical area: European Union
Start date: 2007



Other achievements

Obtained grants and scholarships

- 1 Name of the grant:** Beca de Investigación (Postgrado)
Aims: Pre-doctoral
Awarding entity: Universidad de Valladolid **Type of entity:** University
Conferral date: 01/04/2000
End date: 31/08/2000
- 2 Name of the grant:** Beca de Investigación (Pregrado)
Aims: Pre-doctoral
Awarding entity: Universidad de Valladolid **Type of entity:** University
Conferral date: 01/10/1998
End date: 30/09/1999

Scientific societies and professional associations

- 1 Name of the society:** Miembro de la IEEE Computer Society
Affiliation entity: IEEE
Start-End date: 2009 - 2012
- 2 Name of the society:** Miembro de la International Society of Applied Intelligence
Affiliation entity: International Society of Applied Intelligence
Start-End date: 2011 - 2011
- 3 Name of the society:** Miembro Sénior de la IEEE (Institute of Electrical and Electronics Engineers)
Affiliation entity: IEEE
Start date: 2009
- 4 Name of the society:** Miembro de la Asociación de Telemática (ATEL)
Affiliation entity: ATEL
City affiliation entity: Spain
Start date: 2006

Editorial councils

- 1 Name of the editorial council:** Consejo Editorial de la revista International Journal of Interactive Multimedia and Artificial Intelligence
Professional category: Editora Gestora (Managing Editor)
Start date: 2018
- 2 Name of the editorial council:** Consejo Editorial de la revista International Journal of Interactive Multimedia and Artificial Intelligence
Professional category: Editora Asociada
Start date: 2016 **Duration:** 2 years



Co-operation networks

- 1** **Name of the network:** Telspain: red de profesionales del eLearning en España
Start date: 2010 **Duration:** 2 years
- 2** **Name of the network:** Plataforma Tecnológica Española en el área los Sistemas y Servicios Software (INES)
Start date: 2007 **Duration:** 5 years

Periods of research activity

- 1** **Nº of recognized periods:** 1
Certifying entity: Universidad Internacional de la Rioja **Type of entity:** University
Date of recognition: 2019
- 2** **Nº of recognized periods:** 1
Certifying entity: Universidad Internacional de la Rioja **Type of entity:** University
Date of recognition: 2016

Obtained accreditations/recognitions

- 1** **Description:** Evaluación Favorable para la figura de Profesor Titular de Universidad
Accrediting entity: Ministerio de Educación, Cultura y Deporte
Date of recognition: 18/01/2016
- 2** **Description:** Evaluación Positiva para la figura de Profesor Ayudante Doctor
Accrediting entity: Ministerio de Educación, Cultural y Deporte
Date of recognition: 07/02/2014
- 3** **Description:** Evaluación Positiva para la figura de Profesor Contratado Doctor
Accrediting entity: Ministerio de Educación, Cultural y Deporte
Date of recognition: 07/02/2014
- 4** **Description:** Evaluación Positiva para la figura de Profesor de Universidad Privada
Accrediting entity: Ministerio de Educación, Cultural y Deporte
Date of recognition: 07/02/2014
- 5** **Description:** Evaluación positiva para la figura de Profesor Asociado
Accrediting entity: Agencia para la Calidad del Sistema Universitario de Castilla y León (ACSUCYL)
Date of recognition: 13/06/2011
- 6** **Description:** Evaluación positiva para la figura de Profesor Ayudante
Accrediting entity: Agencia para la Calidad del Sistema Universitario de Castilla y León (ACSUCYL)
Date of recognition: 24/05/2011



- 7** **Description:** Evaluación positiva para la figura de Profesor Contratado Doctor
Accrediting entity: Agencia para la Calidad del Sistema Universitario de Castilla y León (ACSUCYL)
Date of recognition: 24/05/2011
- 8** **Description:** Evaluación positiva para la figura de Profesor de Universidad Privada
Accrediting entity: Agencia para la Calidad del Sistema Universitario de Castilla y León (ACSUCYL)
Date of recognition: 24/05/2011