



Diego Seco Naveiras

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Diego Seco Naveiras

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Current professional situation

Employing entity: Universidad de Concepción **Type of entity:** University
Department: Departamento de Ingeniería Informática y Ciencias de la Computación, Facultad de Ingeniería
Professional category: Associate Professor
Start date: 01/01/2016
Type of contract: Permanent employment contract **Dedication regime:** Full time
Primary (UNESCO code): 120308 - Codes and coding systems; 120312 - Data banks; 120317 - Informatics; 120318 - Information systems; design and componente

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Concepción	Assitant Professor	01/11/2012
2	Universidad de La Coruña	Contratado postdoctoral Ángeles Alvariño - Xunta de Galicia	18/01/2010
3	Universidad de La Coruña	Contratado predoctoral María Barbeito - Xunta de Galicia	01/01/2009
4	Universidad de La Coruña	Contratado con cargo a proyecto	01/10/2008
5	Universidad de La Coruña	Becario tercer ciclo Xunta de Galicia	01/10/2006
6	Enxenio S.L.	Analista Programador	06/03/2006

1 **Employing entity:** Universidad de Concepción **Type of entity:** University
Department: Departamento de Ingeniería Informática y Ciencias de la Computación, Faculta de Ingeniería
Professional category: Assitant Professor
Start-End date: 01/11/2012 - 31/12/2015
Type of contract: Permanent employment contract
Field of management activity: University



- 2** **Employing entity:** Universidad de La Coruña **Type of entity:** University
Professional category: Contratado postdoctoral Ángeles Alvariño - Xunta de Galicia
Start-End date: 18/01/2010 - 26/12/2012 **Duration:** 35 months - 10 days
- 3** **Employing entity:** Universidad de La Coruña **Type of entity:** University
Professional category: Contratado predoctoral María Barbeito - Xunta de Galicia
Start-End date: 01/01/2009 - 17/01/2010
- 4** **Employing entity:** Universidad de La Coruña **Type of entity:** University
Professional category: Contratado con cargo a proyecto
Start-End date: 01/10/2008 - 31/12/2008 **Duration:** 3 months
- 5** **Employing entity:** Universidad de La Coruña **Type of entity:** University
Professional category: Becario tercer ciclo Xunta de Galicia
Start-End date: 01/10/2006 - 30/09/2008 **Duration:** 2 years
- 6** **Employing entity:** Enxenio S.L.
Professional category: Analista Programador
Start-End date: 06/03/2006 - 31/10/2006 **Duration:** 7 months - 26 days



Education

University education

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

University degree: Higher degree

Name of qualification: Ingeniero en Informática

Degree awarding entity: Universidad de La Coruña **Type of entity:** University

Date of qualification: 10/02/2006

Doctorates

Doctorate programme: Doctor en Computación

Degree awarding entity: Universidad de La Coruña **Type of entity:** University

Date of degree: 28/09/2009

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- Title of course/seminar:** Curso 3.1: Diseño de Programas de Asignaturas

Goals of the course/seminar: Design of syllabus based on SCTs and new learning methodologies

Organising entity: Universidad de Concepción **Type of entity:** University

Faculty, institute or centre: Dirección de Docencia

Duration in hours: 27 hours

Start-End date: 19/05/2014 - 13/06/2014
- Title of course/seminar:** Teaching Development Seminar Series

Goals of the course/seminar: Active learning activities

Organising entity: Centre for Teaching Excellence - University of Waterloo

Duration in hours: 10 hours

End date: 2012
- Title of course/seminar:** Innovación e transferencia de tecnoloxía

Organising entity: Centro Universitario de Formación e Innovación Educativa - Universidade da Coruña **Type of entity:** University Centres and Structures and Associated Bodies

Duration in hours: 12 hours

Start date: 2012
- Title of course/seminar:** Métodos de Investigación Cualitativos: Atlas.ti (nivel inicial)

Organising entity: Centro Universitario de Formación e Innovación Educativa - Universidade da Coruña **Type of entity:** University Centres and Structures and Associated Bodies

Duration in hours: 12 hours

Start date: 2012



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C2	C2	C2	C2	C2
Gallegan	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 Name of the course:** Fundamentos de Estructuras de Datos y Algoritmos
University degree: Doctorado en Ciencias de la Computación
Start date: 2016 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 51
Entity: Universidad de Concepción **Type of entity:** University
Faculty, institute or centre: Departamento de Ingeniería Informática y Ciencias de la Computación
- 2 Name of the course:** Taller de análisis de datos en proyectos de ingeniería
University degree: Ingeniero en Informática
Start date: 2016 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 34
Entity: Universidad de Concepción **Type of entity:** University
Faculty, institute or centre: Departamento de Ingeniería Informática y Ciencias de la Computación
- 3 Name of the course:** Taller de programación competitiva
University degree: Ingeniero en Informática
Frequency of the activity: 6
Start date: 2014 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 51
Entity: Universidad de Concepción **Type of entity:** University
Faculty, institute or centre: Departamento de Ingeniería Informática y Ciencias de la Computación
- 4 Name of the course:** Estructuras de Datos y Algoritmos Avanzados
University degree: Doctorado y Magister en Ciencias de la Computación
Frequency of the activity: 4
Start date: 2013 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 85
Entity: Universidad de Concepción **Type of entity:** University
Faculty, institute or centre: Departamento de Ingeniería Informática y Ciencias de la Computación



- 5** **Name of the course:** Programación II
University degree: Ingeniero en Informática
Frequency of the activity: 4
Start date: 2013 **End date:** 2015
End date: 2015 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 85
Entity: Universidad de Concepción **Type of entity:** University
Faculty, institute or centre: Departamento de Ingeniería Informática y Ciencias de la Computación
- 6** **Name of the course:** Desarrollo de aplicaciones empresariales
University degree: Ingeniero en Informática
Start date: 2014 **End date:** 2014
End date: 2014 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 68
Entity: Universidad de Concepción **Type of entity:** University
Faculty, institute or centre: Departamento de Ingeniería Informática y Ciencias de la Computación
- 7** **Name of the course:** Taller de proyectos internacionales
University degree: Ingeniero en Informática
Start date: 2013 **End date:** 2013
End date: 2013 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 34
Entity: Universidad de Concepción **Type of entity:** University
Faculty, institute or centre: Departamento de Ingeniería Informática y Ciencias de la Computación
- 8** **Name of the course:** Bases de datos documentales
University degree: Ingeniero en Informática
Start date: 2010 **End date:** 2013
End date: 2013 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 51
Entity: Universidad de La Coruña **Type of entity:** University
Faculty, institute or centre: Facultad de Informática
- 9** **Name of the course:** Informática básica
University degree: Ingeniero en Informática
Start date: 2010 **End date:** 2013
End date: 2013 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 80
Entity: Universidad de La Coruña **Type of entity:** University
Faculty, institute or centre: Facultad de Informática
- 10** **Name of the course:** Bases de datos I
University degree: Ingeniero en Informática
Start date: 2009 **End date:** 2012
End date: 2012 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 59
Entity: Universidad de La Coruña **Type of entity:** University
Faculty, institute or centre: Facultad de Informática



- 11 Name of the course:** Diseño de recursos informativos en el entorno web
University degree: Ingeniero en Informática
Start date: 2009
End date: 2012
Hours/ECTS credits: 80
Entity: Universidad de La Coruña
Faculty, institute or centre: Facultad de Informática
End date: 2012
Type of hours/ ECTS credits: Hours
Type of entity: University
- 12 Name of the course:** Bases de datos II
University degree: Ingeniero en Informática
Start date: 2009
End date: 2010
Hours/ECTS credits: 10
Entity: Universidad de La Coruña
Faculty, institute or centre: Facultad de Informática
End date: 2010
Type of hours/ ECTS credits: Hours
Type of entity: University
- 13 Name of the course:** Informática aplicada a la empresa
University degree: Ingeniero en Informática
Start date: 2008
End date: 2010
Hours/ECTS credits: 90
Entity: Universidad de La Coruña
Faculty, institute or centre: Facultad de Informática
End date: 2010
Type of hours/ ECTS credits: Hours
Type of entity: University
- 14 Name of the course:** Sistemas de Información Geográfica
University degree: Máster en Computación
End date: 2012
Hours/ECTS credits: 10
Entity: Universidad de La Coruña
Faculty, institute or centre: Facultad de Informática
Type of hours/ ECTS credits: Hours
Type of entity: University

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Representación comprimida de trayectorias de objetos móviles en rutas implícitas
Type of project: End of course project
Entity: Universidad de Concepción
Student: Nataly Cruces Saavedra
Date of reading: 12/01/2017
Type of entity: University
- 2 Project title:** Sistema de ayuda a la toma de decisiones para Seguros Generales de Incendio basado en tecnologías GIS
Type of project: End of course project
Entity: Universidad de Concepción
Student: Jorge Garay Chandía
Date of reading: 29/12/2016
Type of entity: University
- 3 Project title:** Representaciones compactas de matrices con localidad espacial
Type of project: Master
Entity: Universidad de Concepción
Student: P. Alejandro Pinto Medina
Type of entity: University



Date of reading: 22/11/2016

- 4** **Project title:** Sistema de información electrónica para la pesquería pelágica (SIEPP) de la región del Bio- Bio
Type of project: End of course project
Entity: Universidad de Concepción
Student: Juan López Barriga
Date of reading: 20/05/2016
- 5** **Project title:** Implementación del proceso de gestión de la configuración ITIL en una entidad bancaria
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Mariana Sanhueza Soto
Date of reading: 04/09/2015
- 6** **Project title:** Representación eficiente en espacio de matrices con localidad espacial
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Alejandro Pinto
Date of reading: 26/08/2015
- 7** **Project title:** Recomendación de puntos de interés empleando una representación granular del tiempo
Type of project: Master
Entity: Universidad de Concepción **Type of entity:** University
Student: Francisco Serrano Vergara
Date of reading: 30/06/2015
- 8** **Project title:** Estructura de datos eficiente en espacio para relaciones binarias
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Javier González Nova
Date of reading: 28/05/2015
- 9** **Project title:** Autenticación biométrica de identidad utilizando la cédula de identidad peruana
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Tomás Castañeda Püschel
Date of reading: 12/12/2014
- 10** **Project title:** Verificación de identidad utilizando dispositivos móviles y la nueva cédula chilena
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Javier Alejandro Rodríguez Quintana
Date of reading: 12/12/2014
- 11** **Project title:** Desarrollo de sistema de gestión y navegación de rutas turísticas
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Maximiliano Opitz Turra
Date of reading: 11/12/2014



- 12** **Project title:** Estrategias de limpieza basadas en ranking de inconsistencias en bases de datos espaciales
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Rodrigo Andrés Troncoso Gajardo
Date of reading: 28/07/2014
- 13** **Project title:** Desarrollo de una aplicación para equipos móviles basada en tecnología NFC, usando metodologías ágiles
Type of project: End of course project
Entity: Universidad de Concepción **Type of entity:** University
Student: Rodrigo Alberto Palma Martínez
Date of reading: 04/04/2014
- 14** **Project title:** Desenvolvemento dun xogo de sopa de letras online
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: José Luis Pernas Álvarez
Date of reading: 12/2010
- 15** **Project title:** Desarrollo de un juego de Monopoly online con capacidades de promoción turística
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: Miguel Montero Fernández
Date of reading: 06/2009
- 16** **Project title:** O xogo da Curuxa: unha versión didáctica do xogo da oca para o web
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: Pablo González Ramos
Date of reading: 06/2009
- 17** **Project title:** Desarrollo de un juego web de ahorcado en gallego
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: Javier Fraguio Costoya
Date of reading: 12/2008
- 18** **Project title:** Desenvolvemento dun xogo de encrucillados online
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: Iván Queipo Fernández
Date of reading: 09/2008
- 19** **Project title:** Sistema para a recuperación de documentos con referencias xeográficas
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: César Suárez Suárez
Date of reading: 06/2008



- 20** **Project title:** Deseño e implementación dun sitio web de podcasting
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: Laura Prol Baña
Date of reading: 12/2007
- 21** **Project title:** Ferramentas para a análise dos accesos a sitios web: Módulo de presentación de estadísticas
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: Iván Ferreiro Pérez
Date of reading: 12/2007
- 22** **Project title:** Herramienta para el análisis de accesos a sitios web: Módulo de configuración y captura de la información
Type of project: End of course project
Entity: Universidad de La Coruña **Type of entity:** University
Student: Xurxo Muiños Pantín
Date of reading: 12/2007

Student tutorials

Name of the programme: Plano de Acción Titorial de Titulación
Entity: Universidad de La Coruña **Type of entity:** University
Number of recognized hours/ECTS credits: 2

Other activities/achievements not included above

- 1** **Description of the activity:** Doctoral Committee: José Fuentes
Organising entity: Universidad de Concepción **Type of entity:** University
End date: 09/09/2016
- 2** **Description of the activity:** External Master Committee: Felipe José Lara Ramírez
Organising entity: Universidad del Bío-Bío **Type of entity:** University
End date: 07/09/2016
- 3** **Description of the activity:** External Master Committee: Luis Emilio Cabrera Crot
Organising entity: Universidad del Bío-Bío **Type of entity:** University
End date: 24/06/2016
- 4** **Description of the activity:** Committee for the reformulation of Ingeniería Civil Informática
Organising entity: Universidad de Concepción **Type of entity:** University
End date: 2016
- 5** **Description of the activity:** Doctoral Committee: Diego Caro
Organising entity: Universidad de Concepción **Type of entity:** University
End date: 13/07/2015



- 6 Description of the activity:** Doctoral Committee: Mauricio Oyarzún Silva
Organising entity: Universidad de Santiago de Chile **Type of entity:** University
End date: 05/05/2015
- 7 Description of the activity:** External Master Committee: Senén González
Organising entity: Universidad de Chile **Type of entity:** University
End date: 16/05/2014
- 8 Description of the activity:** Curso de Bases de Datos: PostgreSQL (20 h.)
Organising entity: Aula de Formación Informática - Universidade da Coruña
End date: 2009

Scientific and technological experience

Scientific or technological activities

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

- 1 Name of the project:** Bioinformatics and Information Retrieval Data Structures Analysis and Design (BIRDS)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** European Union
Degree of contribution: Scientific coordinator
Entity where project took place: Universidad de La Coruña **Type of entity:** University
City of entity: A Coruña, Galicia, Spain
Name principal investigator (PI, Co-PI....): Susana Ladra; Diego Seco
Nº of researchers: 24
Funding entity or bodies: European Commission **Type of entity:** State agency
Type of participation: Coordinator of the UdeC team
Name of the programme: Horizon 2020
Code according to the funding entity: H2020-MSCA-RISE-2015-690941
Start-End date: 01/01/2016 - 31/12/2020
Total amount: 648.000 €
Dedication regime: Part time
Applicant's contribution: The overall goal of BIRDS is to establish a long term international network involving leading researchers in bioinformatics and information retrieval from four different continents, to strengthen the partnership through the exchange of knowledge and expertise, and to develop integrated approaches to improve current approaches in both fields. It will be implemented through staff exchanges, in addition to summer schools, workshops and conferences to facilitate knowledge sharing between members of the partnership. Eight teams from four different continents participate in this project. The team of the University of Concepción is coordinated by the applicant, Diego Seco, and it comprises 4 senior researchers and 3 post-graduate students.
- 2 Name of the project:** Velocity: Procesado eficiente de Big Data espacio-temporal para FlatCity
Entity where project took place: Universidad de La Coruña **Type of entity:** University



Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces; Susana Ladra

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Economía y Hacienda

Type of entity: State agency

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 30/12/2016 - 29/12/2019

Total amount: 30.613 €

3 Name of the project: Hermes-Space&Time-Healthy and efficient routes in massive open-data based smart cities: spatio-temporal modelling and querying

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

Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces

Nº of researchers: 6

Funding entity or bodies:

Ministerio de Economía y Hacienda

Type of entity: State agency

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2014 - 30/09/2017

Total amount: 105.149 €

4 Name of the project: AQUASAT: An integrated service for site-specific management of irrigation water

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

Name principal investigator (PI, Co-PI....): Mario Lillo

Nº of researchers: 5

Funding entity or bodies:

CONICYT – Ministerio de Educación (Chile)

Type of entity: State agency

City funding entity: Chile

Start-End date: 01/08/2014 - 31/07/2016

Total amount: 160.000 €

5 Name of the project: GEOSOCIAL: High Performance Processing of Microblogs with Geographic and Temporal Information

Entity where project took place: Universidad de Concepción

Name principal investigator (PI, Co-PI....): Diego Seco Naveiras

Nº of researchers: 4

Funding entity or bodies:

CONICYT – Ministerio de Educación (Chile)

Type of entity: State agency

City funding entity: Chile

Start date: 02/11/2013

Duration: 2 years

Total amount: 48.000 €

6 Name of the project: GEOSOCIAL: Análisis de alto rendimiento de microblogs con información geográfica y temporal para su explotación social

Entity where project took place: Universidad de Concepción

City of entity: Chile

Name principal investigator (PI, Co-PI....): Diego Seco Naveiras

Nº of researchers: 3

Funding entity or bodies:



Universidad de Concepción (Chile)

Type of entity: University

Start date: 07/06/2013

Duration: 4 months - 24 days

7 Name of the project: Grupo de Referencia Competitivo

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

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Nº of researchers: 18

Funding entity or bodies:

XUNTA DE GALICIA

City funding entity: Spain

Start date: 01/01/2013

Duration: 3 years

8 Name of the project: Sistema de recepción y gestión de envío de pedidos y cálculo de rutas para Novolar

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

Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces

Funding entity or bodies:

XUNTA DE GALICIA

City funding entity: Spain

Start date: 01/12/2010

Duration: 1 year - 9 months - 29 days

9 Name of the project: Grupo de Referencia Competitivo

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

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Nº of researchers: 18

Start date: 01/01/2010

Duration: 3 years

10 Name of the project: Procesado de alto rendimiento de grandes conjuntos de datos representados como Grafos

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Start date: 01/01/2010

Duration: 2 years - 11 months - 30 days

11 Name of the project: XEOEDUCA: Herramienta para el desarrollo de aplicaciones para el autoaprendizaje de la geografía

Entity where project took place: Universidad de La Coruña

Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces

Funding entity or bodies:

XUNTA DE GALICIA

City funding entity: Spain

Start date: 01/09/2008

Duration: 2 years - 1 month

12 Name of the project: Herramientas y plataforma GIS Open Source

Entity where project took place: Universidad de La Coruña

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Funding entity or bodies:



XUNTA DE GALICIA

City funding entity: Spain

Start date: 15/08/2005

Duration: 3 years

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

- 1** **Name of the project:** Tecnologías inteligentes para el análisis del comportamiento de los usuarios en el acceso y consumo de contenidos digitales en multiplataformas
Name principal investigator (PI, Co-PI....): Miguel Ángel Rodríguez Luaces; R. Cao; A. A. Betanzos
Funding entity or bodies:
PRISA DIGITAL S.L.
Start date: 21/11/2011 **Duration:** 2 years - 6 months - 29 days
- 2** **Name of the project:** Convenio para o desenvolvemento do proxecto de Investigación "Aplicación de localización e cálculo do camiño a puntos de interese próximos para dispositivos móbiles"
Name principal investigator (PI, Co-PI....): Miguel Ángel Rodríguez Luaces
Funding entity or bodies:
Novaware
Start date: 01/07/2011 **Duration:** 1 year - 5 months - 30 days
- 3** **Name of the project:** Convenio para o desenvolvemento do proxecto "Plataforma Tecnolóxica GIS para a promoción das empresas asociadas a Neria-Costa da Morte"
Name principal investigator (PI, Co-PI....): Ángeles Saavedra Places
Funding entity or bodies:
Asociación Neria-Costa da Morte
Start date: 22/09/2010 **Duration:** 1 year - 3 months - 9 days
- 4** **Name of the project:** Contrato de colaboración entre la Universidade da Coruña e Indra Software Labs S.L.U. en el marco de la convocatoria de concesión de ayudas para la realización de proyectos de I+D efectuada por CDTI mediante resolución del 25 de junio de 2009 del CDTI. (BOE 163 del 7 de julio de 2009)
Name principal investigator (PI, Co-PI....): José Ramón Paramá Gabía
Funding entity or bodies:
Indra Software Labs S.L.U.
Start date: 01/01/2010 **Duration:** 2 years - 3 months
- 5** **Name of the project:** Convenio administrativo entre la UDC y la Diputación de A Coruña para financiar la creación de una Web de Rutas Culturales
Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa
Funding entity or bodies:
Deputación de A Coruña
Start date: 03/12/2008 **Duration:** 11 months - 30 days
- 6** **Name of the project:** Convenio para el desarrollo del proyecto de investigación "Desarrollo de Módulos y Aplicaciones de Sistemas de Información Geográfica en Software Libre"
Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces
Funding entity or bodies:
Enxenio S.L.



Start date: 15/10/2008

Duration: 1 year

- 7 Name of the project:** Convenio de colaboración entre a Consellería de Vivenda e Solo e a Universidade da Coruña para financiar o proxecto de investigación dun sistema de información Xeográfica das actuacións da Consellería de Vivenda e Solo

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Funding entity or bodies:

XUNTA DE GALICIA

Start date: 11/09/2008

Duration: 1 year - 3 months - 19 days

- 8 Name of the project:** Convenio de Colaboración entre a Excm. Deputación Provincial da Coruña e a Universidade da Coruña para financiar a adaptación do nodo IdeAC e as súas aplicacións a Xestión Municipal

Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces

Funding entity or bodies:

Deputación de A Coruña

Start date: 16/05/2008

Duration: 1 year - 6 months

- 9 Name of the project:** Convenio para el desarrollo del proyecto de Investigación "Software de Calidad para Centros Educativos"

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Funding entity or bodies:

Enxenio S.L.

Start date: 15/10/2007

Duration: 1 year - 16 days

- 10 Name of the project:** Convenio entre la Diputación Provincial de A Coruña y la Universidade da Coruña para financiar la ampliación de funcionalidades del Nodo ideAC y de las aplicaciones de gestión y publicación de la EIEL (gisEIEL y webEIEL)

Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces

Funding entity or bodies:

Deputación de A Coruña

Start date: 01/09/2007

Duration: 1 year - 2 months - 29 days

- 11 Name of the project:** Convenio entre la Excm. Diputación Provincial de A Coruña y la Universidad de A Coruña para financiar el proyecto de la creación de la Web Cultura Galega

Name principal investigator (PI, Co-PI....): Ángeles Saavedra Places y Nieves Rodríguez Brisaboa

Funding entity or bodies:

Deputación de A Coruña

Start date: 19/06/2007

Duration: 11 months - 29 days

- 12 Name of the project:** Contrato para actividades de asesoramiento y asistencia técnica entre la Universidad de A Coruña y Proyestegal S.L.

Name principal investigator (PI, Co-PI....): Miguel A. Rodríguez Luaces; José R. Paramá Gabía

Funding entity or bodies:

Proyestegal S.L.

Start date: 24/05/2007

Duration: 1 year - 5 months - 29 days



13 Name of the project: Contrato para Actividades de Asesoramento e Asistencia Técnica entre a Universidade da Coruña e Enxenio S.L., en Técnicas de Museística Virtual (Ref. 484-2006)

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Funding entity or bodies:

Enxenio S.L.

Start date: 24/11/2006

Duration: 5 years - 1 month - 7 days

14 Name of the project: Contrato para Actividades de Asesoramiento y Asistencia Técnica entre la Universidad de A Coruña e THERA (Ref. 485-2006)

Name principal investigator (PI, Co-PI....): Nieves Rodríguez Brisaboa

Funding entity or bodies:

THERA

Start date: 24/11/2006

Duration: 11 months - 29 days

Results

Industrial and intellectual property

- 1 Title registered industrial property:** BBDD con mutaciones para generación de informes
Inventors/authors/obtainers: José Antonio Cotelo Lema; Diego Seco Naveiras; Lorenzo Montserrat Iglesias; Manuel Hermida Prieto
Entity holder of rights: Health in Code S.L.
Nº of application: 03/2010/446
Country of inscription: Spain
Date of register: 2009
Conferral date: 23/09/2009
Operating aut.region/region: United Kingdom
- 2 Title registered industrial property:** Registro de cardiopatías familiares
Inventors/authors/obtainers: José Antonio Cotelo Lema; Diego Seco Naveiras; Lorenzo Montserrat Iglesias; Manuel Hermida Prieto
Entity holder of rights: Health in Code S.L.
Nº of application: 03/2010/447
Country of inscription: Spain
Date of register: 2009
Conferral date: 23/09/2009
Operating aut.region/region: United Kingdom

Scientific and technological activities

Scientific production

H index: 9

Date of application: 29/12/2016

Publications, scientific and technical documents

- 1** N.R. Brisaboa; M.R. Luaces; A.S. Places; D. Seco. Exploiting geographic references of documents in a geographical information retrieval system using an ontology-based index. *Geoinformatica*. 14 - 3, pp. 307 - 331. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-77954087263&partnerID=40&md5=9959fb242bbb4ff9cc7d960cac891e38>>.

Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** computer science – information systems
Impact index in year of publication: 0.979 **Journal in the top 25%:** No
Position of publication: 82 **No. of journals in the cat.:** 144

Relevant publication: Yes
- 2** N.R. Brisaboa; M.R. Luaces; G. Navarro; D. Seco. Space-efficient representations of rectangle datasets supporting orthogonal range querying. *Information Systems*. 38 - 5, pp. 635 - 655. 2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84874712861&partnerID=40&md5=21ed9fd6c583d19ba07154aed21c3357>>.

Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** computer science – information systems
Impact index in year of publication: 1.832 **Journal in the top 25%:** Yes
Position of publication: 34 **No. of journals in the cat.:** 144

Relevant publication: Yes
- 3** F. Claude; P.K. Nicholson; D. Seco. On the compression of search trees. *Information Processing and Management*. 50 - 2, pp. 272 - 283. 2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84890283525&partnerID=40&md5=e950517c1677aed62acf12254d875dbb>>.

Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** computer science – information systems
Impact index in year of publication: 1.397 **Journal in the top 25%:** No
Position of publication: 59 **No. of journals in the cat.:** 144

Relevant publication: Yes
- 4** N.R. Brisaboa; M.R. Luaces; M. Andrea Rodríguez; D. Seco. An inconsistency measure of spatial data sets with respect to topological constraints. *International Journal of Geographical Information Science*. 28 - 1, pp. 56 - 82. Taylor & Francis, 2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84888024950&partnerID=40&md5=f5622662b1eadb3f81a343b11f72242c>>.

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

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 2.065

Position of publication: 30

Relevant publication: Yes

Category: computer science – information systems

Journal in the top 25%: Yes

No. of journals in the cat.: 144

- 5** Nieves R. Brisaboa; M. Andrea Rodríguez; Diego Seco; Rodrigo A. Troncoso. Rank-based strategies for cleaning inconsistent spatial databases. *International Journal of Geographical Information Science*. 29 - 2, pp. 280 - 304. Taylor & Francis, 2015. Available on-line at: <<http://dx.doi.org/10.1080/13658816.2014.965711>>.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

Impact index in year of publication: 2.065

Journal in the top 25%: Yes

Position of publication: 30

No. of journals in the cat.: 144

Relevant publication: Yes

- 6** Reza Dorrigiv; Robert Fraser; Meng He; Shahin Kamali; Akitoshi Kawamura; Alejandro López-Ortiz; Diego Seco. On Minimum- and Maximum-Weight Minimum Spanning Trees with Neighborhoods. *Theory of Computing Systems*. 56 - 1, pp. 220 - 250. Springer US, 2015. Available on-line at: <<http://dx.doi.org/10.1007/s00224-014-9591-3>>. ISSN 1432-4350

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, THEORY & METHODS

Impact index in year of publication: 0.719

Journal in the top 25%: No

Position of publication: 73

No. of journals in the cat.: 105

Relevant publication: Yes

- 7** Gonzalo Rojas; Diego Seco; Francisco Serrano. Boosting Point-of-Interest Recommendation with Multigranular Time Representations. *Journal of Universal Computer Science*. 22 - 8, pp. 1148 - 1174. J.UCS Consortium, 2016. Available on-line at: <http://www.jucs.org/jucs_22_8/boosting_point_of_interest>. ISSN 0948-695X

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, SOFTWARE ENGINEERING

Impact index in year of publication: 0.546

Journal in the top 25%: No

Position of publication: 89

No. of journals in the cat.: 106

Relevant publication: Yes

- 8** Nieves Brisaboa; Guillermo Luaces; Roberto Konow; Gonzalo Navarro; Diego Seco. Aggregated 2D Range Queries on Clustered Points. *Information Systems*. 60, pp. 34 - 49. 2016. Available on-line at: <<http://dx.doi.org/10.1016/j.is.2016.03.004>>.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

Impact source: ISI

Category: computer science – information systems

Impact index in year of publication: 1.832

Journal in the top 25%: Yes

Position of publication: 34

No. of journals in the cat.: 144

Relevant publication: Yes



- 9** ÁngelesS. Places; Antonio Fariña; MiguelR. Luaces; Óscar Pedreira; Diego Seco. A workflow management system to feed digital libraries: proposal and case study. *Multimedia Tools and Applications*. 75 - 7, pp. 3843 - 3877. Springer US, 2016. Available on-line at: <<http://dx.doi.org/10.1007/s11042-014-2155-3>>. ISSN 1380-7501
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS
Impact index in year of publication: 1.331 **Journal in the top 25%:** No
Position of publication: 63 **No. of journals in the cat.:** 144
Relevant publication: Yes
- 10** José Fuentes; Erick Elejalde; Leo Ferres; Diego Seco. Parallel Construction of Wavelet Trees on Multicore Architectures. *Knowledge and Information Systems*. pp. 1 - 24. Springer, 2017. Available on-line at: <<http://dx.doi.org/10.1007/s10115-016-1000-6>>. ISSN 0219-1377
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS
Impact index in year of publication: 1.702 **Journal in the top 25%:** No
Position of publication: 41 **No. of journals in the cat.:** 144
Relevant publication: Yes
- 11** José Fuentes-Sepúlveda; Erick Elejalde; Leo Ferres; Diego Seco. Efficient Wavelet Tree Construction and Querying for Multicore Architectures. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 8504, pp. 150 - 161. Springer International Publishing, 2014. Available on-line at: <http://dx.doi.org/10.1007/978-3-319-07959-2_13>. ISBN 978-3-319-07958-5
Type of production: Scientific paper **Format:** Journal
- 12** F. Claude; R. Dorrigiv; S. Kamali; A. López-Ortiz; P. Prałat; J. Romero; A. Salinger; D. Seco. Broadcasting in conflict-aware multi-channel networks. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 7748 LNCS, pp. 158 - 169. 2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84873834391&partnerID=40&md5=497edac42d0a4f64910a0057532d2a0a>>.
Type of production: Scientific paper **Format:** Journal
- 13** R. Dorrigiv; Fraser, R.; He, M.; S. Kamali; Kawamura, A.; A. López-Ortiz; D. Seco. On Minimum- and Maximum-Weight Minimum Spanning Trees with Neighborhoods. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 7846 LNCS, pp. 93 - 106. 2012.
Type of production: Scientific paper **Format:** Journal
- 14** F. Claude; P.K. Nicholson; D. Seco. Space efficient wavelet tree construction. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 7024 LNCS, pp. 185 - 196. 2011. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-80053950278&partnerID=40&md5=5f26633bb739a64194202915aa7c5799>>.
Type of production: Scientific paper **Format:** Journal
- 15** N.R. Brisaboa; M.R. Luaces; G. Navarro; D. Seco. A fun application of compact data structures to indexing geographic data. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 6099 LNCS, pp. 77 - 88. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-79956295703&partnerID=40&md5=51753e05fb95ec34b82de4afa8d6d070>>.



Type of production: Scientific paper

Format: Journal

- 16** L. Montserrat; J.A. Cotelo-Lema; M.R. Luaces; D. Seco. Collecting, analyzing, and publishing massive data about the hypertrophic cardiomyopathy. *Communications in Computer and Information Science*. 52, pp. 301 - 313. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-77950358582&partnerID=40&md5=fd0d0da062a36d0649d8813997161d9f>>.

Type of production: Scientific paper

Format: Journal

- 17** N.R. Brisaboa; M.R. Luaces; O. Pedreira; Á.S. Places; D. Seco. Indexing dense nested metric spaces for efficient similarity search. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 5947 LNCS, pp. 98 - 109. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-77951121352&partnerID=40&md5=b5fae347137610910f658b156936d012>>.

Type of production: Scientific paper

Format: Journal

- 18** N.R. Brisaboa; M.R. Luaces; G. Navarro; D. Seco. Range queries over a compact representation of minimum bounding rectangles. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 6413 LNCS, pp. 33 - 42. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-78649914154&partnerID=40&md5=b4d3c14179684c576dce98ff0f3370a5>>.

Type of production: Scientific paper

Format: Journal

- 19** N.R. Brisaboa; M.R. Luaces; G. Navarro; D. Seco. A new Point Access Method based on wavelet trees. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 5833 LNCS, pp. 297 - 306. 2009. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-78649937832&partnerID=40&md5=1d797a418a41247aa392175b4b6392ef>>.

Type of production: Scientific paper

Format: Journal

- 20** M.R. Luaces; O. Pedreira; Á.S. Places; D. Seco. A web-based version of a trivial game to promote galician culture. *Lecture Notes in Business Information Processing*. 18 LNBIP, pp. 242 - 252. 2009. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-67249137911&partnerID=40&md5=597bd35f4c79807cef51b45fcd5d8dfc>>.

Type of production: Scientific paper

Format: Journal

- 21** S. Ladra; M.R. Luaces; O. Pedreira; D. Seco. A toponym resolution service following the OGC WPS standard. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 5373 LNCS, pp. 75 - 85. 2008. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-58449085474&partnerID=40&md5=df023aeb0f458ab41bd0c9a5071e06e8>>.

Type of production: Scientific paper

Format: Journal

- 22** M.R. Luaces; J.R. Paramá; O. Pedreira; D. Seco. An ontology-based index to retrieve documents with geographic information. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 5069 LNCS, pp. 384 - 400. 2008. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-49049114534&partnerID=40&md5=37ba69ca66c236c49723291f5293b079>>.

Type of production: Scientific paper

Format: Journal

- 23** N. Brisaboa; O. Pedreira; D. Seco; R. Solar; R. Uribe. Clustering-based similarity search in metric spaces with sparse spatial centers. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. 4910 LNCS, pp. 186 - 197. 2008. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-38549178020&partnerID=40&md5=be695741ba4d2d515bdc27da6d91e26d>>.

Type of production: Scientific paper

Format: Journal



- 24** M.R. Luaces; A..S. Places; F.J. Rodríguez; D. Seco. Retrieving documents with geographic references using a spatial index structure based on ontologies. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 5232 LNCS, pp. 395 - 404. 2008. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-70350655994&partnerID=40&md5=d74030a56137c0d11d4ff79f654a32b7>>.
Type of production: Scientific paper **Format:** Journal
- 25** Brisaboa, N. R.; Luaces, M. R.; Seco, D. New Discovery Methodologies in GIS: Improving the Information Retrieval Process. Discovery of Geospatial Resources: Methodologies, Technologies and, Emergent Applications. pp. 37 - 55. IGI Global, 2012.
Type of production: Book chapter **Format:** Book

Works submitted to national or international conferences

- 1** **Title of the work:** Improved Queryable Representations of Rasters
Name of the conference: Data Compression Conference (DCC 2017)
City of event: Snowbird, United States of America
Date of event: 2017
Pinto, A.; Seco, D.; Gutierrez, G. "Proceedings of the 2017 Data Compression Conference (DCC 2017), IEEE Computer Society". pp. 1 - 10.
- 2** **Title of the work:** Faster Compressed Quadrees
Name of the conference: Data Compression Conference (DCC 2015)
City of event: Snowbird, United States of America
Date of event: 2015
Gagie, T.; González-Nova, J.; Ladra, S.; Navarro, G.; Seco, D. "Proceedings of the 2015 Data Compression Conference (DCC 2015), IEEE Computer Society". pp. 93 - 102.
- 3** **Title of the work:** Un índice espacio-temporal compacto para consultas time-slice y time-interval
Name of the conference: Jornadas de Ingeniería del Software y Bases de Datos
City of event: Santander, Spain
Date of event: 2015
End date: 2015
Brisaboa, N. R.; Casares, R.; Rodríguez, M. Andrea; Romero, M.; Seco, D.
- 4** **Title of the work:** Context-Based Algorithms for the List-Update Problem under Alternative Cost Models
Name of the conference: Data Compression Conference (DCC 2013)
City of event: Snowbird, United States of America
Date of event: 2013
Kamali, S.; Ladra, S.; López-Ortiz, A.; Seco, D. "Proceedings of the 2013 Data Compression Conference (DCC 2013), IEEE Computer Society". pp. 361 - 370.
- 5** **Title of the work:** Efficient Wavelet Tree Construction and Querying for Multicore Architectures
Name of the conference: 5th Workshop on MASSIVE Data Algorithmics
City of event: Sophia Antipolis, France
Date of event: 2013
Fuentes-Sepúlveda, J.; Elejalde, E.; Ferres, L.; Seco, D.; Rodríguez, M. Andrea; Caro, D. "Proc. of the 5th Workshop on MASSIVE Data Algorithmics". pp. 79 - 86.



- 6** **Title of the work:** Differentially Encoded Search Trees
Name of the conference: Data Compression Conference (DCC 2012)
City of event: Snowbird, United States of America
Date of event: 2012
Claude, F.; Nicholson, P. K.; Seco, D."Proceedings of the 2012 Data Compression Conference (DCC 2012), IEEE Computer Society". pp. 357 - 366.
- 7** **Title of the work:** Indexación mediante Arrays de Sufijos para Recuperación de Información Geográfica
Name of the conference: II Congreso Español de Recuperación de Información (CERI 2012)
City of event: Valencia, Spain
Date of event: 2012
Organising entity: Universitat Jaume I
Brisaboa, N. R.; Luaces, M. R.; Navarro, G.; Seco, D."Actas del II Congreso Español de Recuperación de Información (CERI 2012)". pp. 73 - 84.
- 8** **Title of the work:** An Integrated System for School Timetabling
Name of the conference: 3rd international Conference on Agents and Artificial Intelligence (ICAART 2011)
City of event: Roma, Italy
Date of event: 2011
Carpente R., M. Luisa; Cerdeira-Pena, A.; De Bernardo R., Guillermo; Seco, D."Proc. of the 3rd international Conference on Agents and Artificial Intelligence (ICAART 2011)". pp. 599 - 603. SciTePress – Science and Technology Publications,
- 9** **Title of the work:** Recuperación de Información Geográfica basada en una Descripción Semántica del Espacio
Name of the conference: I Congreso Español de Recuperación de Información
City of event: Madrid, Spain
Date of event: 2010
Brisaboa, N. R.; Luaces, M. R.; Seco, D."Actas del I Congreso Español de Recuperación de Información, Edición en Internet". pp. 113 - 124.
- 10** **Title of the work:** A Document Management System and Workflow to help at the Diagnosis of Hypertrophic Cardiomyopathy
Name of the conference: 2nd International Conference on Health Informatics (HEALTHINF 2009)
City of event: Porto, Portugal
Date of event: 2009
Montserrat, L.; Cotelo, J. A.; Luaces, M. R.; Seco, D."Proc. of the 2nd International Conference on Health Informatics (HEALTHINF 2009)". pp. 3 - 10.
- 11** **Title of the work:** Defining a Workflow process for textual and geographic indexing of documents
Name of the conference: International Conference on Enterprise Information Systems (ICEIS'09)
City of event: Milan, Italy
Date of event: 2009
Brisaboa, N. R.; Cerdeira-Pena, A.; Luaces, M. R.; Seco, D."Proc. of the 11th International Conference on Enterprise Information Systems". pp. 78 - 83.
- 12** **Title of the work:** Indexación espacial de puntos empleando wavelet trees
Name of the conference: XIV Jornadas de Ingeniería del Software y Bases de Datos (JISBD'09)
City of event: San Sebastián, Spain
Date of event: 2009
Brisaboa, N. R.; Luaces, M. R.; Navarro, G.; Seco, D."Actas de las XIV Jornadas de Ingeniería del Software y Bases de Datos (JISBD'09)".



- 13** **Title of the work:** SCRABBLE.GZ: A Web-Based Collaborative Game to Promote the Galician Language
Name of the conference: International Conferences on Advances in Computer-Human Interactions (ACHI'09)
City of event: Cancún, Mexico
Date of event: 2009
De Bernardo R., Guillermo; Cerdeira-Pena, A.; Pedreira, O.; Places, A. S.; Seco, D."Proc. of the 2nd International Conferences on Advances in Computer-Human Interactions". pp. 142 - 147.
- 14** **Title of the work:** A Web-based Collaborative Game To Promote Galician Culture
Name of the conference: 4th International Conference on Web Information Systems and Technologies (WEBIST)
City of event: Funchal, Madeira, Portugal
Date of event: 2008
Luaces, M. R.; Pedreira, O.; Places, A. S.; Seco, D."Proceedings of the 4th International Conference on Web Information Systems and Technologies (WEBIST)". pp. 67 - 73.
- 15** **Title of the work:** LBD LOCAL: Un sistema para la recuperación de documentos con referencias geográficas
Name of the conference: II Jornadas de SIG Libre
City of event: Girona, Spain
Date of event: 2008
Luaces, M. R.; Paramá, J. R.; Pedreira, O.; Seco, D."Actas de las II Jornadas de SIG Libre".
- 16** **Title of the work:** Los GIS y servicios IDE en la difusión de la cultura gallega. La Web Cultura Galega
Name of the conference: V Jornadas de la Infraestructura de Datos Espaciales de España IDE
City of event: Tenerife, Spain
Date of event: 2008
Lamas, J.I.; Luaces, M. R.; Places, A. S.; R. López, Eduardo; Seco, D."Actas de las V Jornadas de la Infraestructura de Datos Espaciales de España IDE, aplicaciones al planeamiento y la gestión del territorio".
- 17** **Title of the work:** New Approaches for the School Timetabling Problem
Name of the conference: 7th Mexican International Conference on Artificial Intelligence (MICAI'08)
City of event: México DF, Mexico
Date of event: 2008
Cerdeira-Pena, A.; Carpente R., M. Luisa; Fariña, A.; Seco, D."Procs. of the 7th Mexican International Conference on Artificial Intelligence (MICAI'08)". pp. 261 - 267.
- 18** **Title of the work:** Un Servicio de Resolución de Topónimos siguiendo el estándar OGC WPS
Name of the conference: V Jornadas de la Infraestructura de Datos Espaciales de España IDE
City of event: Tenerife, Spain
Date of event: 2008
Cerdeira-Pena, A.; Luaces, M. R.; Pedreira, O.; Seco, D."Actas de las V Jornadas de la Infraestructura de Datos Espaciales de España IDE, aplicaciones al planeamiento y la gestión del territorio".
- 19** **Title of the work:** Un Sistema de Gestión Documental y Workflow con Indexación Temática y Geográfica de los Documentos
Name of the conference: V Jornadas de la Infraestructura de Datos Espaciales de España IDE
City of event: Tenerife, Spain
Date of event: 2008
Cerdeira-Pena, A.; Luaces, M. R.; Pedreira, O.; Seco, D."Actas de las V Jornadas de la Infraestructura de Datos Espaciales de España IDE, aplicaciones al planeamiento y la gestión del territorio".



- 20** **Title of the work:** An Index Structure to Retrieve Documents with Geographic Information
Name of the conference: 1st International Workshop on Multimedia Data Mining and Management (MDMM 2007) (DEXA Workshops 2007)
City of event: Regensburg, Germany
Date of event: 2007
Luaces, M. R.; Paramá, J. R.; Pedreira, O.; Seco, D."Proceedings of the 1st International Workshop on Multimedia Data Mining and Management". pp. 64 - 68.
- 21** **Title of the work:** SSSTree: búsqueda por similitud basada en clustering con centros espacialmente dispersos
Name of the conference: Jornadas Chilenas de Computacion (JCC 2007)
City of event: Iquique, Chile
Date of event: 2007
Uribe, R.; Solar, R.; Brisaboa, N. R.; Pedreira, O.; Seco, D."Actas de las Jornadas Chilenas de Computacion (JCC 2007)". pp. 1 - 13.
- 22** **Title of the work:** Servicio web de análisis de redes en sistemas de información geográfica
Name of the conference: I Jornadas de la IDE
City of event: Santiago de Compostela, Spain
Date of event: 2007
Luaces, M. R.; Paramá, J. R.; Seco, D."La Infraestructura de Datos Espaciales de España en 2007. Proyectos, servicios y nodos". pp. 119 - 127.
- 23** **Title of the work:** Una estructura de indexación para la recuperación de documentos con referencias geográficas
Name of the conference: Evolución de la Investigación y la Docencia en Bases de Datos (EIDBD 2007)
City of event: Zaragoza, Spain
Date of event: 2007
Luaces, M. R.; Paramá, J. R.; Pedreira, O.; Seco, D."Actas del taller Evolución de la Investigación y la Docencia en Bases de Datos (EIDBD 2007)". pp. 19 - 26.
- 24** **Title of the work:** Desarrollo de Webs interactivas con filosofía AJAX: El TRIVIAL.GZ
Name of the conference: XII Congreso Argentino de Ciencias de la Computación (CACIC'06)
City of event: San Luis, Argentina
Date of event: 2006
Brisaboa, N. R.; Places, A. S.; Luaces, M. R.; Seco, D."Proc. del XII Congreso Argentino de Ciencias de la Computación (CACIC'06)".

Other dissemination activities

- 1** **Title of the work:** Invited talk: "Procesamiento eficiente para análisis en la Web social. Una aproximación basada en estructuras de datos compactas"
Name of the event: 6° Encuentro Regional de Software Libre UCM 2016
Type of event: Conferences given
City of event: Talca, Chile
Date of event: 06/10/2016
Organising entity: Universidad Católica del Maule
Diego Seco Naveiras.



- 2** **Title of the work:** Invited talk: "Oportunidades y retos de investigación en la Web social"
Name of the event: VII Congreso de Estudiantes de Computación e Informática Zona Sur
Type of event: Conferences given
City of event: Concepción, Chile
Date of event: 03/12/2015
Organising entity: Universidad del Bío-Bío **Type of entity:** University
- 3** **Title of the work:** Invited talk: "¿Qué podemos aprender en la Web social?"
Name of the event: La Revolución de los Datos II
Type of event: Conferences given
City of event: Segovia,
Date of event: 19/02/2015
Organising entity: Data Web Research - Universidad de Valladolid
- 4** **Title of the work:** Invited talk: "Indexación de Datos en Recuperación de Información Geográfica"
Name of the event: La Revolución de los Datos
Type of event: Conferences given
City of event: Valladolid,
Date of event: 24/05/2012
Organising entity: Data Web Research - Universidad de Valladolid

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: JCIS 2011
Type of activity: Conference **Geographical area:** National
Convening entity: Universidad de La Coruña **Type of entity:** University
City convening entity: A Coruña, Spain
Start date: 05/09/2011 **Duration:** 3 days

R&D management

- 1** **Name of the activity:** Chair of the PhD and Master Programs
Type of management: Programme management
Entity: Universidad de Concepción **Type of entity:** University
Start date: 24/10/2016
- 2** **Name of the activity:** Vice-chair of the Department of Computer Science
Type of management: Management of body
Entity: Universidad de Concepción **Type of entity:** University
Start date: 24/10/2016
- 3** **Name of the activity:** Grupo de Sistemas de Procesamiento de la Información
Type of management: Group management
Performed tasks: Management
Entity: Universidad de Concepción **Type of entity:** University
Start date: 2013 **Duration:** 3 years



- 4** **Name of the activity:** A&C Group: Open problems meetings
Type of management: Management of organised events
Performed tasks: Organizer
Entity: University of Waterloo
Start date: 2011
Type of entity: University
Duration: 1 year

Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Data Compression Conference (DCC'17)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: IEEE
Start-End date: 2017 - 2017
- 2** **Name of the activity:** International Conference on Data Management Technologies and Applications (DATA '15, '16 and '17)
Performed tasks: Program Committee
Entity where activity was carried out: INSTICC
Type of entity: Technological Centre
Start-End date: 2015 - 2017
- 3** **Name of the activity:** 15th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT'16)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: Reykjavík University
City of entity: Reykjavík, Iceland
Start-End date: 2016 - 2016
- 4** **Name of the activity:** 9th International Conference on Similarity Search and Applications (SISAP'16)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: National Institute of Informatics
City of entity: Tokyo, Japan
Start-End date: 2016 - 2016
- 5** **Name of the activity:** Information Retrieval
Performed tasks: Reviewer
Entity where activity was carried out: Springer
Start-End date: 2016 - 2016
- 6** **Name of the activity:** WIRES journal
Performed tasks: Reviewer
Entity where activity was carried out: Wiley
Start-End date: 2016 - 2016
- 7** **Name of the activity:** International Conference of the Chilean Computer Science Society (SCCC'13, '14, '15)
Performed tasks: Program Committee
Entity where activity was carried out: Sociedad Chilena de Ciencias de la Computación
Type of entity: Associations and Groups
Start-End date: 2013 - 2016



- 8** **Name of the activity:** Symposium on String Processing and Information Retrieval (SPIRE'15)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: King's College London
City of entity: London, United Kingdom
Start-End date: 2015 - 2015
Type of entity: University
- 9** **Name of the activity:** International ACM SIGIR Conference of R&D in Information Retrieval (SIGIR '14 and '15)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: ACM
City of entity: London, United Kingdom
Start-End date: 2014 - 2015
Type of entity: Associations and Groups
- 10** **Name of the activity:** Data Compression Conference (DCC'14)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: IEEE
Start date: 2014
- 11** **Name of the activity:** Internal research projects call
Performed tasks: External reviewer
Entity where activity was carried out: Universidad del Bío-Bío
City of entity: Concepción, Chile
Start date: 2014
Type of entity: University
- 12** **Name of the activity:** Fondecyt iniciación 2014
Performed tasks: Reviewer
Entity where activity was carried out: Conicyt - Fondecyt program
City of entity: Chile
Start date: 2014
- 13** **Name of the activity:** Annual Symposium on Combinatorial Pattern Matching (CPM'13)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: Karlsruhe Institute of Technology
Start date: 2013
- 14** **Name of the activity:** Latin American Remote Sensing Week
Performed tasks: Program Committee
Entity where activity was carried out: SAF - Chile
Start date: 2013
- 15** **Name of the activity:** Computer Standards & Interfaces
Performed tasks: Reviewer
Entity where activity was carried out: Elsevier
Start date: 2013
- 16** **Name of the activity:** European Symposium on Algorithms (ESA'12)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: ALGO
Start date: 2012



- 17** **Name of the activity:** 4th International Workshop on Semantic and Conceptual Issues in GIS (SeCoGIS 2010)
Performed tasks: Program Committee
Entity where activity was carried out: International Conference on Conceptual Modeling (ER 2010)
Start date: 2010
- 18** **Name of the activity:** International Conference on Enterprise Information Systems
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: INSTICC
Frequency of the activity: 4
Start date: 2007
- 19** **Name of the activity:** Jornadas de Ingeniería del Software y Bases de Datos (JISBD)
Performed tasks: Auxiliary reviewer
Entity where activity was carried out: Sistedes, SCI
Frequency of the activity: 3
Start date: 2007
- 20** **Name of the activity:** Premio a la Tesis de Maestría y/o Doctorado en Cartografía, Geodesia y áreas afines
Performed tasks: Scientific Committee
Entity where activity was carried out: Instituto Panamericano de Geografía e Historia (IPGH) **Type of entity:** Foundation

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** University of Helsinki **Type of entity:** University
Faculty, institute or centre: Department of Computer Science
City of entity: Helsinki, Finland
Start-End date: 01/07/2014 - 16/07/2014
Goals of the stay: Guest
- 2** **Entity:** Aristotle University **Type of entity:** University
Faculty, institute or centre: Data Engineering Lab. Department of Informatics
City of entity: Thessaloniki, Greece
Start-End date: 25/09/2012 - 26/10/2012
Goals of the stay: Post-doctoral
- 3** **Entity:** University of Waterloo **Type of entity:** University
Faculty, institute or centre: David R. Cheriton School of Computer Science
City of entity: Waterloo, Canada
Start-End date: 01/01/2011 - 30/04/2012
Goals of the stay: Post-doctoral
- 4** **Entity:** University of Waterloo **Type of entity:** University
Faculty, institute or centre: David R. Cheriton School of Computer Science
City of entity: Waterloo, Canada
Start-End date: 15/09/2010 - 15/12/2010



Goals of the stay: Post-doctoral

- 5** **Entity:** Universidad de Chile **Type of entity:** University
Faculty, institute or centre: Departamento de Ciencias de la Computación
City of entity: Santiago de Chile, Chile
Start-End date: 25/02/2010 - 15/06/2010
Goals of the stay: Post-doctoral
- 6** **Entity:** Universidad de Chile **Type of entity:** University
Faculty, institute or centre: Departamento de Ciencias de la Computación
City of entity: Santiago de Chile, Chile
Start-End date: 01/10/2009 - 17/12/2009
Goals of the stay: Post-doctoral
- 7** **Entity:** Universidad de Chile **Type of entity:** University
Faculty, institute or centre: Departamento de Ciencias de la Computación
City of entity: Santiago de Chile, Chile
Start-End date: 17/06/2009 - 17/09/2009
Goals of the stay: Doctorate

Obtained grants and scholarships

- 1** **Name of the grant:** Short-Term Scientific Mission (STSM)
Aims: Research stay
Awarding entity: Action Cost - EU **Type of entity:** State agency
Conferral date: 2012 **Duration:** 1 month
Entity where activity was carried out: Aristotle University (Greece)
- 2** **Name of the grant:** Ángeles Alvariño
Aims: Post-doctoral
Awarding entity: XUNTA DE GALICIA
Conferral date: 2010 **Duration:** 3 years
Entity where activity was carried out: Universidad de La Coruña
Faculty, institute or centre: Facultad de Informática
- 3** **Name of the grant:** María Barbeito
Aims: Pre-doctoral
Awarding entity: XUNTA DE GALICIA
Conferral date: 2009 **Duration:** 1 year
Entity where activity was carried out: Universidad de La Coruña
Faculty, institute or centre: Facultad de Informática
- 4** **Name of the grant:** Tercer ciclo
Aims: Pre-doctoral
Awarding entity: XUNTA DE GALICIA
Conferral date: 2006 **Duration:** 2 years
Entity where activity was carried out: Universidad de La Coruña
Faculty, institute or centre: Facultad de Informática



Co-operation networks

Name of the network: Red Gestión de Datos

Identification of the network: TIN2008-04453-E/TIN

Start date: 03/2009

Duration: 1 year

Prizes, mentions and distinctions

Description: Asignación Académica

Awarding entity: Universidad de Concepción

City awarding entity: Concepción, Chile

Conferral date: 29/12/2015

Recognition linked: The University of Concepción assigns a 20% extra salary for three years to those academics with outstanding performance. This performance is measured in terms of research activities (publications, projects, etc.), teaching (courses, evaluations of the students, seminars, etc.) and academic extension activities.

Summary of other achievements

- 1 Description of the achievement:** ACM-ICPC (programming contest). Local teams coach
Accrediting entity: ACM
Conferral date: 2016
- 2 Description of the achievement:** OCI (programming contest). National coordinator
Accrediting entity: Sociedad Chilena de Ciencias de la Computación
City accrediting entity: Chile
Conferral date: 2016
- 3 Description of the achievement:** ACM-ICPC (programming contest). Local teams coach
Accrediting entity: ACM
Conferral date: 2015
- 4 Description of the achievement:** OCI (programming contest). National team coach
Accrediting entity: Sociedad Chilena de Ciencias de la Computación
City accrediting entity: Chile
Conferral date: 2015
- 5 Description of the achievement:** ACM-ICPC (programming contest). Local teams coach
Accrediting entity: ACM
Conferral date: 2014
- 6 Description of the achievement:** OCI (programming contest). Local team coach
Accrediting entity: Sociedad Chilena de Ciencias de la Computación
Conferral date: 2014



7 **Description of the achievement:** Dagstuhl Seminar 13232 on Indexes and Computation over Compressed Structured Data

Accrediting entity: Schloss Dagstuhl

Type of entity: R&D Centre

City accrediting entity: Saarbrücken, Germany

Conferral date: 02/06/2013

8 **Description of the achievement:** ACM-ICPC (programming contest). Local teams coach

Accrediting entity: ACM

Conferral date: 2013

9 **Description of the achievement:** OCI (programming contest). Local team coach

Accrediting entity: Sociedad Chilena de Ciencias de la Computación

Conferral date: 2013

10 **Description of the achievement:** Partner

Accrediting entity: Enxenio S.L.

Type of entity: Business

City accrediting entity: A Coruña, Galicia, Spain

Conferral date: 2008