



**María Dolores Martínez
Rodrigo**

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

M^a Dolores Martínez Rodrigo is a Full Professor in the Division of Continuum Mechanics and Structural Analysis at Jaume I University of Castellón (UJI), where she has developed her teaching and research activity since 2001. Her research falls within the field of Computational Mechanics and Structural Dynamics, applied to seismic and railway induced vibrations related problems. She defended her Doctoral Thesis focused on vibration control of railway bridges in 2009. This thesis won the COMSA Railway Award from Polytechnical University of Catalonia and the Best Doctoral Thesis award of the Polytechnic University of Valencia in the area of Civil and Industrial Engineering in 2010, and led to the development of the National Patent ES 2 372 095. She is currently the leader of the Computational Mechanics and Structural Analysis research group at UJI, and belongs to the inter-university research group USUJI with University of Seville, devoted to improving the safety, functionality and sustainability of railway infrastructures based on prediction and experimentation in noise and vibration. USUJI group has performed three vibratory studies required by ADIF for the construction of the Madrid-Galicia and León-Asturias High-Speed lines. M.D. Martínez-Rodrigo has taught more than 3000 hours of structural engineering related subjects and has tutored over 30 bachelor's, master's and PhD theses. Her research has resulted so far in 31 JCR indexed papers (27 Q1) with close to 800 citations, 2 books, 10 book chapters and more than 70 publications in recognised international conferences. Prof. Martínez maintains important research international collaborations after completing 24-month research internships at Katholieke Universiteit Leuven (Belgium), State University of New York at Buffalo (USA) and KTH Stockholm (Sweden). She has three validated research 6-year terms by CNEAI. It is also worth mentioning her participation as a researcher or principal investigator in seven national projects, five regional and four local ones for over 1.3 M€. She has also been responsible of two especially relevant competitive research contracts with University of Granada related to the monitoring of railway viaducts; one within the framework of an INNPACTO project, and the other from the Strategic Singular Projects subprogram, both funded by the Ministry of Science and Innovation. Nowadays, she is the chair of the Mechanical Engineering and Construction Department composed by 80 academics at Jaume I University of Castellón.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Number of research periods positively evaluated: 3 (2002-2007, 2008-2013, 2014-2019)

Number of PhD Thesis supervised: 2 + 2 ongoing

Citations: 791 (Scopus)

Number of JCR journal papers: 31 = 27 (Q1) + 3 (Q2) + 1 (Q3)

h index: 15 (Scopus)



María Dolores Martínez Rodrigo

Surname(s): **Martínez Rodrigo**
Name: **María Dolores**
DNI:
ORCID: **0000-0003-4748-9133**
ScopusID: **55951206500**
ResearcherID: **F-1233-2016**
Date of birth:
Gender:
Nationality: **Spain**
Country of birth:
Aut. region/reg. of birth:
Contact province:
City of birth: **Valencia**
Contact address: **Universitat Jaume I, Departamento de Ingeniería Mecánica y Construcción**
Campus del Riu Sec, Avda. Sos Baynat s/n
12006
Rest of contact address:
Postcode:
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Contact aut. region/reg.: **Valencian Community**
Contact city: **Castellón**
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Mobile phone: **(+34)**
Personal web page: **www.mmcte.uji.es**

Current professional situation

Employing entity: Universitat Jaume I **Type of entity:** University
Department: Ingeniería Mecánica y Construcción, Escuela Superior de Tecnología y Ciencias Experimentales
Professional category: Catedrático de Universidad N.R.P. 1899806968A0500 **Educational Management (Yes/No):** Yes
City employing entity: Castellón, Valencian Community, Spain
Phone: (34) 964387473 **Email:** mrodrigo@uji.es
Start date: 20/10/2022
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 330532 - Structural engineering
Secondary (UNESCO code): 330504 - Bridges
Tertiary (UNESCO code): 220111 - Vibrations
Identify key words: Civil engineering; Rail transport; Vibrations; Bridges
Field of management activity: University

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universitat Jaume I	Profesor Titular de Universidad	01/09/2018
2	Universitat Jaume I	Profesor Contratado Doctor	01/08/2010
3	Universitat Jaume I	Vicedirector de la ESTCE responsable del Grado en Ingeniería Mecánica	17/02/2014
4	Universitat Jaume I	Responsable del Área de Mecánica de Medios Continuos y Teoría de Estructuras	01/01/2005
5	Universitat Jaume I	Profesor Colaborador	01/02/2006
6	Universitat Jaume I	Ayudante de Escuela Universitaria	25/09/2001
7	Sociedad de Fomento Agrícola Castellonense	Ingeniero Superior	11/01/2000
8	Universitat Jaume I	Director del Departamento de Ingeniería Mecánica y Construcción	03/10/2022
9	Universitat Jaume I	Secretario del Departamento de Ingeniería Mecánica y Construcción	13/04/2009

- Employing entity:** Universitat Jaume I
Type of entity: University
Professional category: Profesor Titular de Universidad
Start-End date: 01/09/2018 - 20/10/2022
Duration: 4 years - 1 month
- Employing entity:** Universitat Jaume I
Type of entity: University
Professional category: Profesor Contratado Doctor
Start-End date: 01/08/2010 - 01/09/2018
Duration: 8 years - 1 month
- Employing entity:** Universitat Jaume I
Type of entity: University
Department: Escuela Superior de Tecnología y Ciencias Experimentales
City employing entity: Castellón, Valencian Community, Spain
Professional category: Vicedirector de la ESTCE responsable del Grado en Ingeniería Mecánica
Educational Management (Yes/No): Yes
Start-End date: 17/02/2014 - 17/02/2018
Duration: 4 years
Type of contract: Permanent employment contract
Field of management activity: University
- Employing entity:** Universitat Jaume I
Type of entity: University
Professional category: Responsable del Área de Mecánica de Medios Continuos y Teoría de Estructuras
Educational Management (Yes/No): Yes
Start-End date: 01/01/2005 - 01/09/2017
Duration: 12 years
Field of management activity: University
- Employing entity:** Universitat Jaume I
Type of entity: University
Department: Departamento de Ingeniería Mecánica y Construcción, Escuela Superior de Tecnología y Ciencias Experimentales
City employing entity: Castellón, Valencian Community, Spain
Professional category: Profesor Colaborador
Educational Management (Yes/No): Yes
Start-End date: 01/02/2006 - 31/07/2010
Duration: 4 years - 6 months
Type of contract: Permanent employment contract
Dedication regime: Full time
Field of management activity: University



- 6** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Departamento de Ingeniería Mecánica y Construcción, Escuela Superior de Tecnología y Ciencias Experimentales
City employing entity: Castellón, Valencian Community, Spain
Professional category: Ayudante de Escuela Universitaria **Educational Management (Yes/No):** Yes
Start-End date: 25/09/2001 - 31/01/2006 **Duration:** 4 years - 4 months
Type of contract: Temporary employment contract
Dedication regime: Full time
Field of management activity: University
- 7** **Employing entity:** Sociedad de Fomento Agrícola Castellonense **Type of entity:** Business
Professional category: Ingeniero Superior
Start-End date: 11/01/2000 - 11/06/2000 **Duration:** 6 months
- 8** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Departamento de Ingeniería Mecánica y Construcción, Escuela Superior de Tecnología y Ciencias Experimentales
City employing entity: Castellón, Valencian Community, Spain
Professional category: Director del Departamento de Ingeniería Mecánica y Construcción **Educational Management (Yes/No):** Yes
Start date: 03/10/2022 **Duration:** 3 months
Type of contract: Permanent employment contract
Field of management activity: University
- 9** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Departamento de Ingeniería Mecánica y Construcción, Escuela Superior de Tecnología y Ciencias Experimentales
City employing entity: Castellón, Valencian Community, Spain
Professional category: Secretario del Departamento de Ingeniería Mecánica y Construcción **Educational Management (Yes/No):** Yes
Start date: 13/04/2009 **Duration:** 4 years - 4 months
Type of contract: Permanent employment contract
Field of management activity: University



Education

University education

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

1 University degree: Master

Name of qualification: Master of Science in Structural Engineering

City degree awarding entity: United States of America

Degree awarding entity: University of California San Diego **Type of entity:** University

Date of qualification: 15/06/2001

2 University degree: Higher degree

Name of qualification: Ingeniero Industrial

Degree awarding entity: Universitat Jaume I

Type of entity: University

Date of qualification: 11/11/2000

Doctorates

Doctorate programme: Doctor por la Universitat Politècnica de València

Degree awarding entity: Universitat Politècnica de València **Type of entity:** University

Date of degree: 27/02/2009

European doctorate: No

Thesis title: Atenuación de vibraciones resonantes en puentes de ferrocarril de Alta Velocidad mediante amortiguadores fluido-viscosos

Thesis director: Pedro Museros Romero

Thesis co-director: Manuel Romero García

Obtained qualification: Sobresaliente Cum Laude

Recognition of quality: Yes

Special doctorate award: No

Standardised degree: No

Other postgraduate university studies

Postgraduate qualification: Especialista universitario en Ingeniería de la Construcción: Análisis de estructuras de hormigón

Degree awarding entity: Universitat Politècnica de València **Type of entity:** University

Faculty, institute or centre: Departamento de Ingeniería de la Construcción y de Proyectos de Ingeniería Civil

Date of qualification: 2004

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Operational modal analysis
Awarding entity: Department of Civil Engineering, Katholieke Universiteit Leuven-Universidad Politécnica de Madrid-Fundación Caminos de Hierro
End date: 2012
Duration in hours: 20 hours
- 2 Training title:** High performance computations for engineering. International. PhD course
Awarding entity: University of Pécs. Pollack Mihály Faculty for Engineering
End date: 2010
Type of entity: University
Duration in hours: 40 hours
- 3 Training title:** Jornada sobre ingeniería de mantenimiento para la gestión de los puentes
Awarding entity: FHECOR-Ingenieros consultores S.A.-AIDICO
End date: 2009
Type of entity: Technological Centre
Duration in hours: 4 hours
- 4 Training title:** Jornada técnica de ACHE sobre "Puentes para el ferrocarril de Alta Velocidad"
Awarding entity: Asociación Científico-Técnica del Hormigón Estructural
End date: 2009
Type of entity: Associations and Groups
Duration in hours: 6 hours
- 5 Training title:** Jornada IAPF-07: "Instrucción de acciones en puentes de ferrocarril: principios, novedades y casos de aplicación"
Awarding entity: Colegio de Ingenieros de Caminos, Canales y Puertos y Fundación Caminos de Hierro
End date: 2008
Type of entity: Colegio profesional y fundación para la investigación
Duration in hours: 8 hours
- 6 Training title:** Código Técnico de la Edificación
Awarding entity: Colegio Oficial de Ingenieros Superiores Industriales de la Comunidad Valenciana
End date: 2007
Type of entity: Colegio profesional
Duration in hours: 27 hours
- 7 Training title:** Dynamics of High-Speed railway bridges
Awarding entity: Facultad de Ingeniería de la Universidad de Oporto
End date: 2005
Type of entity: University
Duration in hours: 20 hours
- 8 Training title:** Bridges for High-Speed railways
Awarding entity: Facultad de Ingeniería de la Universidad de Oporto
End date: 2004
Type of entity: University
Duration in hours: 20 hours
- 9 Training title:** Análisis y diseño sismorresistente de estructuras
Awarding entity: Universitat Jaume I - Universidad Politécnica de Cartagena
End date: 2003
Type of entity: University
Duration in hours: 30 hours



- 10 Training title:** Jornadas técnicas sobre la Instrucción de Hormigón Estructural EHE
Awarding entity: Universitat Jaume I
End date: 1999
Type of entity: University
Duration in hours: 10 hours

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

- 1 Title of course/seminar:** Advanced oral skills (II)
Organising entity: Universitat Jaume I - Servicio de lenguas y terminología
Objectives of the course/seminar: Formación de profesorado universitario
Title of the course/seminar: Advanced oral skills
Duration in hours: 23 hours
Start-End date: 01/02/2018 - 01/06/2018
Type of entity: University
- 2 Title of course/seminar:** Advanced oral skills (I)
Goals of the course/seminar: Formación de profesorado universitario
Organising entity: Universitat Jaume I - Servicio de lenguas y terminología
Duration in hours: 23 hours
End date: 2017
- 3 Title of course/seminar:** Rúbricas académicas: preguntas frecuentes y lecciones aprendidas
Goals of the course/seminar: Formación de profesorado universitario
Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo
Duration in hours: 4 hours
End date: 2017
Type of entity: University
- 4 Title of course/seminar:** Taller sobre competencias transversales y profesionales: Resolución de problemas y Análisis y síntesis
Goals of the course/seminar: Formación de profesorado universitario
Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo
Duration in hours: 3 hours
End date: 2017
Type of entity: University
- 5 Title of course/seminar:** Jornada sobre competencias transversales y profesionales: Implantación del proyecto de evaluación de competencias transversales en la UPV
Goals of the course/seminar: Formación de profesorado universitario
Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo
Duration in hours: 3 hours
End date: 2016
Type of entity: University
- 6 Title of course/seminar:** Materials mediation. Making EMI materials more accesible for students
Goals of the course/seminar: Formación de profesorado universitario
Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo
Duration in hours: 3 hours
End date: 2015
Type of entity: University



7 Title of course/seminar: Programa de formación para directivos: de la verificación a la renovación de la acreditación de los títulos oficiales: los programas de las agencias de calidad

Goals of the course/seminar: Formación de responsables de gestión universitaria

Organising entity: Universitat Jaume I - Vicerrectorado **Type of entity:** University
de planificación estratégica, calidad e igualdad

Duration in hours: 4 hours

End date: 2014

8 Title of course/seminar: Taller sobre diseño de planes de estudio de grado

Goals of the course/seminar: Formación de profesorado universitario

Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo

Duration in hours: 4 hours

End date: 2008

9 Title of course/seminar: Diploma de Capacitación Docente Universitaria Básica

Goals of the course/seminar: Formación de profesorado universitario

Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo

Duration in hours: 120 hours

End date: 2004

10 Title of course/seminar: Estrategias para hablar en público

Goals of the course/seminar: Formación de profesorado universitario

Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo

Duration in hours: 10 hours

End date: 2003

11 Title of course/seminar: El profesor en la Universitat Jaume I

Goals of the course/seminar: Formación de profesorado universitario

Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo

Duration in hours: 10 hours

End date: 2002

12 Title of course/seminar: Metodología para la docencia universitaria

Goals of the course/seminar: Formación de profesorado universitario

Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo

Duration in hours: 10 hours

End date: 2002

13 Title of course/seminar: Motivación en el aula

Goals of the course/seminar: Formación de profesorado universitario

Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo

Duration in hours: 10 hours

End date: 2002

14 Title of course/seminar: Planificación de la docencia universitaria

Goals of the course/seminar: Formación de profesorado universitario

Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo

Duration in hours: 10 hours

End date: 2002



- 15 Title of course/seminar:** Taller de la voz
Goals of the course/seminar: Formación de profesorado universitario
Organising entity: Universitat Jaume I - Unidad de Apoyo Educativo
Duration in hours: 12 hours
End date: 2002

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1

Teaching experience

General teaching experience

- 1 Type of teaching:** Official teaching
Name of the course: Elasticidad y Resistencia de Materiales
Type of programme: Technical engineering **Type of teaching:** Teórica, problemas y laboratorio
Type of subject: Core
University degree: Ingeniería Técnica Industrial Especialidad Mecánica
Course given: Segundo **Frequency of the activity:** 4
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 90
Entity: Universitat Jaume I **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales
Department: Departamento de Ingeniería Mecánica y Construcción
Subject language: Spanish
- 2 Type of teaching:** Official teaching
Name of the course: Elasticidad y Resistencia de Materiales
Type of programme: Engineering **Type of teaching:** Teoría, problemas y laboratorio
Type of subject: Core
University degree: Ingeniería Industrial
Course given: Segundo **Frequency of the activity:** 8
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 75
Entity: Universitat Jaume I **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales
Department: Ingeniería Mecánica y Construcción
Subject language: Spanish
- 3 Type of teaching:** Official teaching
Name of the course: Elasticity and Strength of Materials
Type of programme: Engineering **Type of teaching:** Teoría, problemas y prácticas de laboratorio
Type of subject: Core



University degree: Ingeniería Industrial / Programa de doble título EURUJI

Frequency of the activity: 2

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 75

Entity: Universitat Jaume I

Type of entity: University

Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales

Department: Ingeniería Mecánica y Construcción

Subject language: English

4 Type of teaching: Official teaching

Name of the course: Trabajo del módulo de maquinaria, seguridad y ergonomía en máquinas

Type of programme: Master's degree

Type of teaching: Practical work (classroom-problems)

Type of subject: Optional

University degree: Máster Universitario en Diseño y Fabricación

Frequency of the activity: 7

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: Universitat Jaume I

Type of entity: University

Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales

Department: Ingeniería Mecánica y Construcción

Subject language: Spanish

5 Type of teaching: Official teaching

Name of the course: Vibraciones de Máquinas

Type of programme: Master's degree

Type of teaching: Teoría, problemas y laboratorio

Type of subject: Optional

University degree: Máster Universitario en Diseño y Fabricación

Frequency of the activity: 8

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: Universitat Jaume I

Type of entity: University

Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales

Department: Ingeniería Mecánica y Construcción

Subject language: Spanish

6 Type of teaching: Official teaching

Name of the course: Advanced Structural Analysis

Type of programme: Grado

Type of teaching: Teoría, problemas y prácticas de laboratorio

Type of subject: Optional

University degree: Grado en Ingeniería Mecánica

Course given: Cuarto

Frequency of the activity: 5

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: Universitat Jaume I

Type of entity: University

Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales

Department: Ingeniería Mecánica y Construcción

Subject language: English

**7 Type of teaching:** Official teaching**Name of the course:** Advanced structural analysis**Type of programme:** Grado**Type of subject:** Optional**University degree:** Grado en Ingeniería Mecánica**Course given:** Cuarto**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 6**Entity:** Universitat Jaume I**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales**Department:** Ingeniería Mecánica y Construcción**Subject language:** English**Type of teaching:** Teoría, problemas y laboratorio**Frequency of the activity:** 6**Type of entity:** University**8 Type of teaching:** Official teaching**Name of the course:** Elasticidad y Resistencia de Materiales**Type of programme:** Grado**Type of subject:** Obligatory**University degree:** Grado en Ingeniería Mecánica**Course given:** Segundo**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 6**Entity:** Universitat Jaume I**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales**Department:** Ingeniería Mecánica y Construcción**Subject language:** Spanish**Type of teaching:** Teoría, problemas y laboratorio**Frequency of the activity:** 4**Type of entity:** University**9 Type of teaching:** Official teaching**Name of the course:** Elasticidad y Resistencia de Materiales**Type of programme:** Grado**Type of subject:** Obligatory**University degree:** Grado en Ingeniería Eléctrica**Course given:** Segundo**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 6**Entity:** Universitat Jaume I**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales**Department:** Ingeniería Mecánica y Construcción**Subject language:** Spanish**Type of teaching:** Teoría, problemas y laboratorio**Frequency of the activity:** 6**Type of entity:** University**10 Type of teaching:** Official teaching**Name of the course:** Elasticidad y Resistencia de Materiales**Type of programme:** Grado**Type of subject:** Obligatory**University degree:** Grado en Ingeniería en Tecnologías Industriales**Course given:** Segundo**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 6**Entity:** Universitat Jaume I**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales**Department:** Ingeniería Mecánica y Construcción**Subject language:** Spanish**Type of teaching:** Teoría, problemas y laboratorio**Frequency of the activity:** 6**Type of entity:** University

**11 Type of teaching:** Official teaching**Name of the course:** Estructuras I: Mecánica y resistencia de materiales**Type of programme:** Grado**Type of teaching:** Teoría, problemas y prácticas de laboratorio**Type of subject:** Formación básica**University degree:** Grado en Arquitectura Técnica**Course given:** Primero**Frequency of the activity:** 2**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 6**Entity:** Universitat Jaume I**Type of entity:** University**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales**Department:** Ingeniería Mecánica y Construcción**Subject language:** Spanish**12 Type of teaching:** Official teaching**Name of the course:** Mantenimiento de estructuras y construcciones**Type of programme:** Grado**Type of teaching:** Teoría, problemas y laboratorio**Type of subject:** Optional**University degree:** Grado en Ingeniería Mecánica**Course given:** Cuarto**Frequency of the activity:** 1**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 4,5**Entity:** Universitat Jaume I**Type of entity:** University**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales**Department:** Ingeniería Mecánica y Construcción**Subject language:** Spanish**13 Type of teaching:** Official teaching**Name of the course:** Teoría de Estructuras**Type of programme:** Grado**Type of teaching:** Teoría, problemas y laboratorio**Type of subject:** Obligatory**University degree:** Grado en Ingeniería en Tecnologías Industriales**Course given:** Cuarto**Frequency of the activity:** 6**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 6**Entity:** Universitat Jaume I**Type of entity:** University**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales**Department:** Ingeniería Mecánica y Construcción**Subject language:** Spanish**14 Type of teaching:** Official teaching**Name of the course:** Teoría de Estructuras**Type of programme:** Grado**Type of teaching:** Teoría, problemas y laboratorio**Type of subject:** Obligatory**University degree:** Grado en Ingeniería Mecánica**Course given:** Tercero**Frequency of the activity:** 4**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 6**Entity:** Universitat Jaume I**Type of entity:** University**Faculty, institute or centre:** Escuela Superior de Tecnología y Ciencias Experimentales



Department: Ingeniería Mecánica y Construcción

Subject language: Spanish

15 Name of the course: Estructuras de la Edificación

Type of programme: Technical architecture

Type of subject: Core

University degree: Arquitectura Técnica

Frequency of the activity: 2

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 150

Entity: Universitat Jaume I

Type of teaching: Teoría, problemas y laboratorio

Type of entity: University

Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales

Department: Ingeniería Mecánica y Construcción

Subject language: Spanish

Experience supervising doctoral thesis and/or final year projects

1 Project title: Análisis del comportamiento dinámico de pasarela para uso de peatones y ciclistas. Modelización numérica y caracterización experimental mediante aplicaciones móviles

Type of project: Minor thesis

Entity: Universitat Jaume I

Student: Flavien Masse

Date of reading: 2020

Type of entity: University

2 Project title: Análisis numérico y experimental del acoplamiento vía-estructura en el comportamiento dinámico de puentes de ferrocarril de vía única

Type of project: Minor thesis

Entity: Universitat Jaume I

Student: Josep Chordà Monsonís

Date of reading: 2020

Type of entity: University

3 Project title: Análisis resistente y propuesta de diseño de estructura de seguridad para vehículo de competición del Campeonato de España de Montaña

Type of project: End of course project

Entity: Universitat Jaume I

Student: Sergi Muñoz Bort

Date of reading: 2019

4 Project title: Análisis del comportamiento sísmico de armarios para aparcamiento eléctrica en centrales nucleares

Type of project: End of course project

Entity: Universitat Jaume I

Student: Carlos Tomás Verdoy

Date of reading: 2017

Type of entity: University

5 Project title: Análisis del comportamiento termomecánico del edificio ESPAITEC 2 asociado a la dilatación térmica por insolación. Propuesta de actuaciones

Type of project: End of course project

Entity: Universitat Jaume I

Student: Pau Miralles Ferrás

Date of reading: 2017

Type of entity: University



- 6** **Project title:** Adecuación de modelos numéricos para el calculo dinámico de puentes de ferrocarril: modelo losa ortótropa y losa sobre vigas. Comparacion con medidas experimentales
Type of project: Minor thesis
Entity: Universitat Jaume I
City of entity: Castellón, Valencian Community, Spain
Student: Paula Susana Rueda Navarro
Obtained qualification: 9.5
Date of reading: 2017
- 7** **Project title:** Análisis experimental del comportamiento resistente de bóvedas tabicadas a escala en laboratorio. Evaluación de posibilidades de refuerzos
Type of project: End of course project
Entity: Universitat Jaume I
Student: José Pallarés Marzá
Date of reading: 2016
Type of entity: University
- 8** **Project title:** Contribución al análisis mecánico de bridas para industria aeroespacial
Type of project: End of course project
Entity: Universitat Jaume I
Student: Paula Susana Rueda Navarro
Date of reading: 2016
Type of entity: University
- 9** **Project title:** Contribución al análisis vibratorio de neumáticos mediante simulación numérica para el grupo Michelin
Type of project: End of course project
Entity: Universitat Jaume I
Student: Diego Peña Sorita
Date of reading: 2016
Type of entity: University
- 10** **Project title:** Estudio del fenómeno vibratorio en el edificio ESPAITEC 2 de la Universitat Jaume I. Análisis de posibles causas y propuesta de actuaciones
Type of project: End of course project
Entity: Universitat Jaume I
Student: Manuel Salom García
Date of reading: 2016
Type of entity: University
- 11** **Project title:** Proyecto de construcción de cuatro naves industriales de uso indeterminado con licencia de actividad y proyecto eléctrico en baja tensión para una de ellas
Type of project: End of course project
Entity: Universitat Jaume I
Student: Maja Pikula
Date of reading: 2010
Type of entity: University
- 12** **Project title:** Análisis a pandeo de pilas de plataformas petrolíferas a succión por el Método de los Elementos Finitos. Optimización de su proceso de diseño mediante programación en Python
Type of project: End of course project
Entity: Universitat Jaume I
Student: Alejandro Doménech Monforte
Date of reading: 2009
Type of entity: University



- 13** **Project title:** Análisis, dimensionado y optimización de un sistema de fijación para fachada ventilada de gres porcelánico
Type of project: End of course project
Entity: Universitat Jaume I
Student: Sergio Badía Bou
Date of reading: 2009
- 14** **Project title:** Proyecto de construcción e instalaciones de nave industrial y edificio de oficinas para empresa dedicada a la elaboración y producción de defloculantes
Type of project: End of course project
Entity: Universitat Jaume I
Student: Jordi Vila Muñoz
Date of reading: 2009
Type of entity: University
- 15** **Project title:** Proyecto de instalaciones para la urbanización de la unidad de ejecución 10-UE-T de Castellón
Type of project: End of course project
Entity: Universitat Jaume I
Student: Sergio Martín Gil
Date of reading: 2009
Type of entity: University
- 16** **Project title:** Proyecto de reparcelación y urbanización del polígono de actuación PAU 27 de las normas subsidiarias de la zona A de la Sènia
Type of project: End of course project
Entity: Universitat Jaume I
Student: Edgard Gallego Montull
Date of reading: 2008
Type of entity: University
- 17** **Project title:** Proyecto de construcción de nave industrial e instalaciones para una empresa dedicada a la fabricación de cintas transportadoras
Type of project: End of course project
Entity: Universitat Jaume I
Student: Federico Artés Artés
Date of reading: 2007
Type of entity: University
- 18** **Project title:** Proyecto de construcción de nave industrial con edificio de oficinas para empresa dedicada a la fabricación y almacenaje de helados
Type of project: End of course project
Entity: Universitat Jaume I
Student: Abraham Soto Cabello
Date of reading: 2006
Type of entity: University
- 19** **Project title:** Comportamiento dinámico de puentes de ferrocarril para tráfico de alta velocidad y reacondicionamiento mediante disipadores viscoelásticos pasivos
Type of project: Doctoral thesis
Co-director of thesis: Pedro Museros Romero
Entity: Universitat Politècnica de València
City of entity: Valencia, Valencian Community, Spain
Student: Emmanuela Moliner Cabedo
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2012
Quality recognition: Yes
Date of award: 2006



20 **Project title:** Influencia del modelo de vehículo en la predicción del comportamiento a flexión de puentes isostáticos de ferrocarril para tráfico de alta velocidad

Type of project: Doctoral thesis

Co-director of thesis: Pedro Museros Romero

Entity: Universitat Politècnica de València

Type of entity: University

City of entity: Universitat Politècnica de València, Valencian Community, Spain

Student: Alejandro Doménech Monforte

Obtained qualification: Sobresaliente. Cum laude

Date of reading: 2014

European doctorate: No

Quality recognition: Yes

Date of award: 2006

Educational or pedagogical publications, books, articles, etc.

1 Javier Andrés de la Esperanza; Alejandro Doménech Monforte; Carmen Ibáñez Usach; Jose Luis Iserte Vilar; José Enrique Juliá Bolívar; Raúl Martínez Cuenca; María Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Rosa Mondragón Cazorla; Marta Mora Aguilar; Roberto Palma Guerrero; Víctor Roda Casanova; María José Ruipérez; Francisco Tomás Sánchez Marín. "Diseño, puesta en marcha y análisis de los resultados obtenidos en una prueba de evaluación de conocimientos comunes de mecánica y elasticidad en segundo curso de los grados de ingeniería del ámbito de la Ingeniería Industrial", V Jornada Nacional Sobre Estudios Universitarios. Valencian Community (Spain): Publicacions de la Universitat Jaume I. 2015. ISBN 978-84-16356-37-9

Name of the materials: V Jornada Nacional Sobre Estudios Universitarios

Date of drafting: 2015

Format: Article(s)

Degree of contribution: Author or co-author of scientific or technical document for the general public

Corresponding author: No

Position of signature: 7

2 María de los Dolores Martínez Rodrigo; Manuel Luis Romero García; Pedro Museros Romero; Enrique Padrones Huguet. "Elasticidad y resistencia de materiales. Manual de prácticas de laboratorio", Valencian Community (Spain): -. 2003.

Legal deposit: CS-371-2003

Name of the materials: Manual de prácticas de laboratorio

Target group profile: Estudiantes de ingeniería del ámbito civil o industrial

Date of drafting: 2003

Format: Book

Degree of contribution: Author or co-author of entire book

Corresponding author: Yes

Position of signature: 1

3 Manuel Luis Romero García; Pedro Museros Romero; María de los Dolores Martínez Rodrigo; Ana Poy Gil. "Resistencia de Materiales", Valencian Community (Spain): Servei de publicacions de la Universitat Jaume I. 2002. ISBN 84-8021-384-1

Name of the materials: Libro de texto

Target group profile: Estudiantes de ingeniería del ámbito civil o industrial

Date of drafting: 2002

Format: Book

Degree of contribution: Author or co-author of entire book

Corresponding author: No

**Position of signature: 3**

- 4** María de los Dolores Martínez Rodrigo; Manuel Luis Romero García; Pedro Museros Romero; Enrique Padrones Huguet. "Elaboración de un dossier de prácticas de laboratorio para la asignatura Elasticidad y Resistencia de Materiales de las titulaciones de Ingeniería Técnica Industrial Mecánica e Ingeniería Industrial", Actas de la IV Jornada de Mejora Educativa y III Jornada de Armonización Europea de la Universitat Jaume I. Valencian Community (Spain): Servei de publicacions de la Universitat Jaume I. 2005. ISBN 84-8021-534-8
Name of the materials: Actas de la IV Jornada de Mejora Educativa y III Jornada de Armonización Europea de la Universitat Jaume I
Format: Article(s)
Degree of contribution: Author or co-author of scientific or technical document for the general public
Corresponding author: Yes
Position of signature: 1

- 5** María de los Dolores Martínez Rodrigo; Manuel Luis Romero García; América Bendito Torija. "Creación de la página web de la asignatura Elasticidad y Resistencia de Materiales para el grupo EURUJI. Elaboración de material docente en soporte digital", Actas de la VI Jornada de Mejora Educativa y V Jornada de Armonización Europea de la Universitat Jaume I. Valencian Community (Spain): Servei de publicacions de la Universitat Jaume I. 2007. ISBN 978-84-8021-623-4
Name of the materials: Actas de la VI Jornada de Mejora Educativa y V Jornada de Armonización Europea de la Universitat Jaume I
Format: Article(s)
Degree of contribution: Author or co-author of scientific or technical document for the general public
Corresponding author: Yes
Position of signature: 1

- 6** María de los Dolores Martínez Rodrigo; Oscar Martínez Ramos; José Manuel Portolés Flaj. "Implantación de un sistema de evaluación "multimétodo" en la asignatura Elasticidad y Resistencia de Materiales de Ingeniería Industrial", Actas de la VII Jornada de Mejora Educativa y VI Jornada de Armonización Europea de la Universitat Jaume I. Valencian Community (Spain): Servei de publicacions de la Universitat Jaume I. 2007. ISBN 978-84-8021-625-8
Name of the materials: Actas de la VII Jornada de Mejora Educativa y VI Jornada de Armonización Europea de la Universitat Jaume I
Format: Article(s)
Degree of contribution: Author or co-author of scientific or technical document for the general public
Corresponding author: Yes
Position of signature: 1

- 7** Emmanuela Moliner Cabedo; David Hernandez Figueirido; María de los Dolores Martínez Rodrigo. "Introducción del aula virtual como herramienta de enseñanza-aprendizaje en la asignatura Estructuras de la Edificación", Actas de la VIII Jornada de Mejora Educativa y VII Jornada de Armonización Europea de la Universitat Jaume I. Valencian Community (Spain): Servei de publicacions de la Universitat Jaume I. 2009. ISBN 978-84-8021-725-5
Name of the materials: Actas de la VIII Jornada de Mejora Educativa y VII Jornada de Armonización Europea de la Universitat Jaume I
Format: Article(s)
Degree of contribution: Author or co-author of scientific or technical document for the general public
Corresponding author: Yes
Position of signature: 1

- 8** María de los Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; David Hernandez Figueirido. "Puesta en marcha de la asignatura IB11 Estructuras de la Edificación en 2º curso de Arquitectura Técnica: elaboración de material docente, página web y planificación de las prácticas de laboratorio", Actas de la VIII Jornada de Mejora



Educativa y VII Jornada de Armonización Europea de la Universitat Jaume I. Valencian Community (Spain): Servei de publicacions de la Universitat Jaume I. 2009. ISBN 978-84-8021-724-8

Name of the materials: Actas de la VIII Jornada de Mejora Educativa y VII Jornada de Armonización Europea de la Universitat Jaume I

Format: Article(s)

Degree of contribution: Author or co-author of chapter in book

Corresponding author: Yes

Position of signature: 1

- 9** María de los Dolores Martínez Rodrigo; David Hernandez Figueirido; Emmanuela Moliner Cabedo. "Puesta en marcha de la asignatura IB28 Tecnología Avanzada de Estructuras en 3er curso de Arquitectura Técnica: elaboración de material docente en soporte digital y planificación de las prácticas de laboratorio", Actas de la VIII Jornada de Mejora Educativa y VII Jornada de Armonización Europea de la Universitat Jaume I. Valencian Community (Spain): Servei de publicacions de la Universitat Jaume I. 2009. ISBN 978-84-8021-725-5

Name of the materials: Actas de la VIII Jornada de Mejora Educativa y VII Jornada de Armonización Europea de la Universitat Jaume I

Format: Article(s)

Degree of contribution: Author or co-author of chapter in book

Position of signature: 1

Participation in innovative teaching projects

- 1** **Project title:** Observación, análisis y propuestas de mejora de la docencia en inglés en las aulas multilingües

Type of participation: Team member

Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo **Type of entity:** University

End date: 2020

Duration: 1 year

- 2** **Project title:** Revisión y acciones de mejora en la metodología de evaluaciones de las competencias transversales derivadas del sello EURACE de los grados de ingeniería de la rama industrial

Type of participation: Team member

Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo **Type of entity:** University

End date: 2020

Duration: 1 year

- 3** **Project title:** Innovación educativa en Mecánica de Medios Continuos

Type of participation: Principal investigator

Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo **Type of entity:** University

End date: 2019

Duration: 1 year

- 4** **Project title:** La coordinación vertical de los Grados en Ingeniería en el ámbito industrial y agroalimentaria después de la renovación de la acreditación: el desarrollo de las competencias básicas, transversales y profesionales

Type of participation: Team member

Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo **Type of entity:** University

End date: 2019

Duration: 1 year

- 5** **Project title:** Las competencias transversales: "Comunicación oral y escrita" y "Trabajo en equipo" en los grados de la ESTCE

Type of participation: Team member



Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2019
Type of entity: University
Duration: 1 year

6 Project title: Evaluación de competencias transversales en los grados de la ESTCE
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2017
Type of entity: University
Duration: 1 year

7 Project title: Innovación educativa en Elasticidad y resistencia de materiales
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2017
Type of entity: University
Duration: 1 year

8 Project title: La coordinación vertical de los grados en ingeniería del ámbito industrial y agroalimentario tras la renovación de la acreditación: el desarrollo de las competencias básicas, transversales y profesionales
Type of participation: Co-ordinator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2017
Type of entity: University
Duration: 1 year

9 Project title: Constitución de equipos docentes en los grados de la ESTCE
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2016
Type of entity: University
Duration: 1 year

10 Project title: Mejora de la coordinación docente vertical de los grados en ingeniería del ámbito de la Ingeniería Industrial y Agroalimentaria
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2016
Type of entity: University
Duration: 1 year

11 Project title: Implementación progresiva y valoración de las competencias transversales en los grados de la ESTCE
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2015
Type of entity: University
Duration: 1 year

12 Project title: Evaluación inicial y planteamiento de mejoras en la coordinación docente vertical de los grados en ingeniería del ámbito de la Ingeniería Industrial y Agroalimentaria
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2014
Type of entity: University
Duration: 1 year



- 13** **Project title:** Coordinación, mejora docente y adaptación al EEES de la asignatura Elasticidad y resistencia de materiales: experiencia innovadora de transversalidad en el ámbito de los nuevos grados en ingeniería
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2012
Type of entity: University
Duration: 1 year
- 14** **Project title:** Aplicación de recursos semipresenciales mediante el Aula Virtual para fomentar el aprendizaje continuo de la asignatura Elasticidad y resistencia de materiales (311)
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2011
Type of entity: University
Duration: 1 year
- 15** **Project title:** Diseñando estrategias de aprendizaje autónomo: el alumnado como eje central en el marco del EEES
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2011
Type of entity: University
Duration: 2 years
- 16** **Project title:** Proyectos de coordinación de las asignaturas del ámbito de cálculo de estructuras impartidas en el Grado de Ingeniería de la Edificación
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2011
Type of entity: University
Duration: 1 year
- 17** **Project title:** ED0918-Estructuras III. Hormigón armado y cimentaciones en 2º curso de Ingeniería de la edificación: elaboración de material docente en soporte digital, planificación de las prácticas de laboratorio y elaboración de material para el curso en formato semipresencial
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2010
Type of entity: University
Duration: 1 year
- 18** **Project title:** Puesta en marcha de la asignatura Estructuras I: Mecánica y resistencia de materiales en el Grado en Ingeniería de la Edificación. Nuevas metodologías docentes en el ámbito del proceso de armonización europea
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2010
Type of entity: University
Duration: 1 year
- 19** **Project title:** Elaboración de dossiers de prácticas para las asignaturas de elasticidad y resistencia de materiales de las titulaciones de Ingeniería Técnica Industrial Mecánica y de Ingeniería Industrial. Elaboración de dossier de prácticas para la asignatura Estructuras de la edificación de la titulación de Arquitectura Técnica
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2009
Type of entity: University
Duration: 1 year



- 20** **Project title:** Implantación de un sistema de evaluación “multimétodo” en la asignatura IB28 Tecnología Avanzada de Estructuras. Estructuras de hormigón de Arquitectura Técnica
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2009
Type of entity: University
Duration: 1 year
- 21** **Project title:** Introducción al Aula Virtual como herramienta de enseñanza-aprendizaje en la asignatura Estructuras de la edificación (IB11)
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2008
Type of entity: University
Duration: 1 year
- 22** **Project title:** Puesta en marcha de la asignatura IB28 Tecnología Avanzada de Estructuras en 3er curso de Arquitectura Técnica: elaboración de material docente en soporte digital y planificación de las prácticas de laboratorio
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2008
Type of entity: University
Duration: 1 year
- 23** **Project title:** Coordinación de la puesta en marcha de las prácticas dirigidas de 2º curso de Arquitectura Técnica
Type of participation: Team member
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2007
Type of entity: University
Duration: 1 year
- 24** **Project title:** Puesta en marcha de la asignatura IB11 Estructuras de la Edificación en 2º curso de Arquitectura Técnica: elaboración de material docente, página web y planificación de prácticas de laboratorio
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2007
Type of entity: University
Duration: 1 year
- 25** **Project title:** Implantación de un sistema de evaluación "multimétodo" en la asignatura Elasticidad y Resistencia de Materiales de Ingeniería Industrial (311)
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2006
Type of entity: University
Duration: 1 year
- 26** **Project title:** Creación de la página web de la asignatura Elasticidad y Resistencia de Materiales para el grupo EURUJI. Elaboración de material docente en soporte digital
Type of participation: Principal investigator
Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2005
Type of entity: University
Duration: 1 year
- 27** **Project title:** Creación de la página web de la asignatura Elasticidad y Resistencia de Materiales. Elaboración de material docente en soporte digital
Type of participation: Principal investigator



Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
End date: 2004
Type of entity: University
Duration: 1 year

28 Project title: Programa de experiencias de aprendizaje en el marco de coordinación docente de la titulación de Ingeniería Técnica Industrial Mecánica

Type of participation: Team member

Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
Type of entity: University

End date: 2004
Duration: 1 year

29 Project title: Elaboración de un dossier de prácticas de laboratorio para la asignatura Elasticidad y Resistencia de Materiales de las titulaciones Ingeniería Técnica Industrial e Ingeniería Industrial

Type of participation: Principal investigator

Funding entity: Universitat-Jaume I, Unidad de Apoyo Educativo
Type of entity: University

End date: 2003
Duration: 1 year

Participation in conferences with talks focused on teacher training

1 Name of the event: ICLHE Conference

Type of event: Conference

Type of participation: Participatory - oral communication

Target group profile: Profesores de Universidad

Presentation language: Spanish

City of event: Castellón, Valencian Community, Spain

Date of presentation: 25/10/2019

Organising entity: Universitat Jaume I

Type of entity: University

City organizing entity: Castellón, Valencian Community, Spain

EMI may not be enough...: the case of Mechanical Engineering at UJI.

2 Name of the event: VI Jornada Nacional sobre Estudios Universitarios y II Taller de Innovación Educativa

Type of event: Conference

Type of participation: Participatory - poster

Target group profile: Profesores de Universidad

Presentation language: Spanish

City of event: Castellón, Valencian Community, Spain

Date of presentation: 09/11/2017

Organising entity: Universitat Jaume I

Type of entity: University

City organizing entity: Castellón, Valencian Community, Spain

Puesta en marcha de plan de actuación en respuesta a prescripciones EUR-ACE para la formación y evaluación de competencias transversales en las ingenierías del ámbito industrial de la Universitat Jaume I.

3 Name of the event: INDOTEC 2017

Type of event: Conference

Target group profile: Profesores de Universidad

City of event: Granada, Andalusia, Spain

Date of presentation: 20/10/2017

Organising entity: Universidad de Granada

City organizing entity: Granada, Andalusia, Spain



Publication type: Scientific paper

Comparación de dos experiencias docentes en la evaluación continua de la asignatura de Elasticidad y Resistencia de Materiales.

- 4** **Name of the event:** Engineering education for the XXI century: New competences in engineering education in the area of sustainability and university social responsibility

Type of event: Conference

Type of participation: Organizational - Scientific and organizing committee

Target group profile: Profesores de Universidad

City of event: Castellón, Valencian Community, Spain

Date of presentation: 2017

Organising entity: Universitat Jaume I

Type of entity: University

City organizing entity: Castellón, Valencian Community, Spain

Engineering education for the XXI century: New competences in engineering education in the area of sustainability and university social responsibility. ISBN 978-84-9082-642-3

- 5** **Name of the event:** 2nd International Seminar: Internationalising learning: English as a Medium of Instruction (EMI)

Type of event: Conference

Type of participation: Participatory - oral communication

Corresponding author: No

Target group profile: Profesores de Universidad

Presentation language: English

City of event: Valencia, Valencian Community, Spain

Date of presentation: 30/03/2017

Organising entity: Universitat Politècnica de València

Type of entity: University

City organizing entity: Valencia, Valencian Community, Spain

EMI as a medium of instruction at Universitat Jaume I.

- 6** **Name of the event:** III Jornadas ACHE de enseñanza de la Ingeniería Estructural

Type of event: Workshop

Type of participation: Organizational - Scientific and organizing committee

Date of presentation: 2013

Organising entity: ACHE

Awards received for innovation in the field teaching

Name of the prize: Premio Banco Santander al seminario permanente de innovación educativa SPIE-COORDINA

Awarding entity: Banco Santander

Type of entity: Banco

City awarding entity: Ecuador

Proposed by: Banco Santander - Universitat Jaume I

Conferral date: 2017

Scientific and technological experience

Research and development groups/teams

Name of the group: Grupo de Cálculo de Estructuras y Mecánica Computacional (CECOM)

Aims of the group: Investigación en el área de Mecánica de Medios Continuos y Teoría de Estructuras de la Universitat Jaume I

Name of principal investigator: María de los Dolores Martínez Rodrigo

Number of members in the group: 7

Standardised code: 108

City of group: Castellón de la Plana, Valencian Community, Spain

Affiliation entity: Universitat Jaume I

Type of entity: University

Number of directed thesis: 8

Start date: 16/09/2009

Duration: 9 years - 4 months

Scientific or technological activities

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

- 1** **Name of the project:** UJI-B2021-16: Predicción ajustada del comportamiento vibratorio de puentes ferroviarios: análisis de fenómenos de interacción y desarrollo de métodos de cálculo simplificados

Entity where project took place: Universitat Jaume I

Type of entity: University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 3

Funding entity or bodies:

Universitat Jaume I - Plan propio de investigación 2021

Type of entity: University

City funding entity: Castellón, Valencian Community, Spain

Type of participation: Principal investigator

Start-End date: 01/01/2022 - 31/12/2024

Total amount: 19.971 €

- 2** **Name of the project:** AICO/2021/200: Interacción vehículo-vía-estructura-suelo en aras a una predicción ajustada de la respuesta vibratoria de puentes de ferrocarril para la mejora de su seguridad, funcionalidad y sostenibilidad

Entity where project took place: Universitat Jaume I

Type of entity: University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 4

Funding entity or bodies:

Generalitat Valenciana. Consejería de Innovación, Universidades, Ciencia y Sociedad Digital

Type of entity: State agency

City funding entity: Spain



Type of participation: Principal investigator
Start-End date: 01/01/2021 - 31/12/2023
Total amount: 83.600 €

- 3 Name of the project:** PID2019-109622RB-C22: Interacción vía-estructura-suelo y efectos de amortiguamiento en puentes de ferrocarril. Análisis experimental de estructuras existentes y desarrollo de modelos avanzados

Identify key words: Rail transport; Vibrations; Bridges

Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Gobierno

Type of participation: Principal investigator

Name of the programme: Convocatoria de proyectos de investigación y desarrollo tecnológico

Code according to the funding entity: PID2019-109622RB-C22

Start-End date: 01/06/2020 - 01/06/2023

Duration: 36 months

Total amount: 102.850 €

Dedication regime: Full time

- 4 Name of the project:** US-1264916: Microgeneración de energía a partir de vibraciones ambientales para el desarrollo de sistemas autónomos de monitorización: análisis de viabilidad en la red ferroviaria

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

Name principal investigator (PI, Co-PI....): Antonio Romero Aro

Nº of researchers: 4

Type of participation: Team member

Name of the programme: Programa Operativo FEDER Andalucía 2014-2020

Code according to the funding entity: US-1264916

Start-End date: 01/02/2020 - 30/04/2022

Duration: 3 years

Total amount: 85.460 €

- 5 Name of the project:** AICO/2019/175: Análisis del comportamiento dinámico de puentes ferroviarios pertenecientes a líneas de alta velocidad. Desarrollo de modelos numéricos avanzados y validación mediante campañas experimentales

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 4

Funding entity or bodies:

Generalitat Valenciana. Consejería de Innovación, Universidades, Ciencia y Sociedad Digital

Type of entity: State agency

City funding entity: Spain

Type of participation: Principal investigator

Start-End date: 01/01/2019 - 31/03/2021



Total amount: 40.000 €

- 6** **Name of the project:** GACUJI/2020/11: Ayudas a grupos de investigación activos en captación de recursos del Plan Estatal de I+D+i. Grupo 108

Entity where project took place: Universitat Jaume I

City of entity: Castellon, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Maria D. Martinez Rodrigo

Type of participation: Principal investigator

Start-End date: 01/01/2020 - 31/12/2020

Duration: 1 year

Total amount: 12.809 €

- 7** **Name of the project:** EQC2019-006018-P: Consolidación del clúster de computación científica: servidores, almacenamiento y equipamiento de red

Entity where project took place: Universitat Jaume I

City of entity: Castellon, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Vicente Moliner Ibáñez

Nº of researchers: 15

Type of participation: Team member

Start-End date: 01/01/2019 - 31/12/2020

Duration: 2 years

Total amount: 165.289 €

- 8** **Name of the project:** UJI-A2018-06: Comportamiento vibratorio de puentes de ferrocarril isostáticos de vía doble: análisis numérico y validación experimental de la interacción suelo-estructura y la deformabilidad de la sección al paso de composiciones de Alta Velocidad

Entity where project took place: Universitat Jaume I

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 2

Funding entity or bodies:

Universitat Jaume I

Type of entity: University

City funding entity: Castellón, Valencian Community, Spain

Type of participation: Principal investigator

Name of the programme: Plan 2018 de Promoción de la Investigación de la Universitat Jaume I

Code according to the funding entity: UJI-A2018-06

Start-End date: 01/01/2019 - 31/12/2020

Total amount: 18.736 €

- 9** **Name of the project:** BIA2016-75042-C2-2-R: Análisis numérico y validación experimental del efecto de la interacción suelo-estructura sobre el comportamiento vibratorio de puentes ferroviarios

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Economía y Competitividad

Type of entity: State agency

City funding entity: Spain

Type of participation: Principal investigator



Name of the programme: Convocatoria 2016 - Proyectos I+D+I - Programa estatal de investigación, desarrollo e innovación orientada a los retos de la sociedad

Code according to the funding entity: BIA2016-75042-C2-2-R

Start-End date: 01/01/2017 - 31/12/2019

Duration: 3 years

Total amount: 42.350 €

Sub-project amount: 35.000 €

Dedication regime: Full time

- 10 Name of the project:** P1-1B2015-54: Análisis de la interacción suelo-estructura en el comportamiento dinámico de puentes de ferrocarril. Estudio numérico de las vibraciones libres y efecto sobre las condiciones de resonancia y cancelación mediante el uso de modelos acoplados de elementos finitos y elementos de contorno

Identify key words: Rail transport; Vibrations; Bridges

Type of project: Basic research (including archaeological digs, etc)

Geographical area: Proyecto de investigación local

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 3

Funding entity or bodies:

Universitat Jaime I

Type of entity: UNIVERSIDAD

Type of participation: Principal investigator

Name of the programme: Plan 2015 de Promoción de la Investigación de la Universitat Jaume I

Code according to the funding entity: P1-1B2015-54

Start-End date: 01/01/2016 - 31/12/2017

Duration: 24 months

Total amount: 11.789 €

- 11 Name of the project:** BIA2008-04111: Modelos numéricos avanzados para el análisis de vibraciones detectadas en puentes de ferrocarril pertenecientes a líneas convencionales acondicionadas para Alta Velocidad

Identify key words: Rail transport; Vibrations; Bridges

Geographical area: National

Degree of contribution: Researcher

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

City of entity: Granada, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Pedro Museros Romero

Nº of researchers: 7

Nª people/year: 7

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Administración

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Name of the programme: Programa Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica 2008-2011

Code according to the funding entity: BIA2008-04111

Start-End date: 01/01/2008 - 31/12/2010

Duration: 3 years

Total amount: 29.040 €

Sub-project amount: 24.000 €



- 12** **Name of the project:** 80021/A04: Elementos de disipación pasiva aplicados al reacondicionamiento y al proyecto de puentes de ferrocarril. Estudio de la viabilidad técnica y económica, y desarrollo de modelos analíticos de cálculo
- Identify key words:** Rail transport; Vibrations; Bridges
- Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** National
- Degree of contribution:** Researcher
- Entity where project took place:** Universidad de Granada **Type of entity:** University
- City of entity:** Granada, Andalusia, Spain
- Name principal investigator (PI, Co-PI....):** Pedro Museros Romero
- Nº of researchers:** 5 **Nª people/year:** 5
- Funding entity or bodies:** Ministerio de Fomento **Type of entity:** Administración
- City funding entity:** Madrid, Community of Madrid, Spain
- Type of participation:** Team member
- Name of the programme:** Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica 2004-2007
- Code according to the funding entity:** 80021/A04
- Start-End date:** 01/01/2004 - 01/01/2007 **Duration:** 2 years
- Participating entity/entities:** FUNDACIÓN CAMINOS DE HIERRO PARA LA INVESTIGACIÓN Y LA INGENIERÍA FERROVIARIA; Universidad de Granada; Universitat Jaume I
- Total amount:** 42.296 €
- 13** **Name of the project:** GV04A/714: Estudio experimental de perfiles tubulares de acero rellenos de hormigón de alta resistencia
- Geographical area:** Regional
- Degree of contribution:** Researcher
- Entity where project took place:** Universitat Jaume I
- Name principal investigator (PI, Co-PI....):** Manuel Luis Romero García
- Nº of researchers:** 2
- Funding entity or bodies:** Generalitat Valenciana, Consellería de Cultura, Educación y Deporte **Type of entity:** Administración autonómica
- Type of participation:** Team member
- Name of the programme:** Ayudas para proyectos de I+D para el ejercicio 2004
- Code according to the funding entity:** GV04A/714
- Start-End date:** 01/01/2004 - 01/01/2006 **Duration:** 24 months
- Total amount:** 16.891 €
- 14** **Name of the project:** 02I289.01: Estudio teórico-experimental de los efectos de segundo orden en soportes de hormigón de alta resistencia considerando la influencia de regiones "D"
- Entity where project took place:** Universitat Jaume I **Type of entity:** University
- City of entity:** Castellón, Valencian Community, Spain
- Name principal investigator (PI, Co-PI....):** Manuel Romero García
- Funding entity or bodies:** Ministerio de Fomento **Type of entity:** Ministerio
- City funding entity:** Madrid, Community of Madrid, Spain
- Type of participation:** Team member



Name of the programme: Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica 2000-2003

Start-End date: 13/12/2002 - 13/12/2005

Total amount: 78.000 €

15 Name of the project: P1-1A2003-11: Mejora del diseño de maquinaria mediante la sustitución de mecanismos planos con pares superiores por mecanismos con pares inferiores

Identify key words: Machine design

Type of project: Basic research (including archaeological digs, etc)

Degree of contribution: Researcher

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Francisco Sánchez Marín

Nº of researchers: 3

Funding entity or bodies:

Universitat Jaume I

Type of entity: University

City funding entity: Castellón, Valencian Community, Spain

Type of participation: Team member

Name of the programme: Plan 2002 de Promoción de la Investigación de la Universitat Jaume I

Code according to the funding entity: P1-1A2003-11

Start-End date: 01/12/2003 - 30/11/2005

Duration: 24 months

Total amount: 5.600 €

Dedication regime: Part time

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

1 Name of the project: 8396/2019: Prueba de carga a rotura e informe de fallo de cáncamo de acero para elevación de elementos pesados

Degree of contribution: Scientific coordinator

Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 1

Funding entity or bodies:

FERROTEC-CINCA SLE

Start date: 2019

Duration: 1 month

2 Name of the project: 2824/0722: Servicio de asistencia para la redacción del proyecto de construcción, de protección acústica y del estudio vibratorio en la línea de Alta Velocidad Madrid-Galicia. Tramo: Pedralba de Pradería-Ourense

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Pedro Galván Barrera

Nº of researchers: 5

Funding entity or bodies:

ADIF-PROINTEC S.A.

Start date: 2016

Duration: 12 months

3 Name of the project: 6511/2015: Estudio vibratorio en máquina de impresión para la industria cerámica. Análisis de posibles causas de funcionamiento anómalo

Degree of contribution: Scientific coordinator



Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo

Nº of researchers: 2

Funding entity or bodies:

EFI CRETAPRINT DEVELOPMENT S.L.U.

Type of entity: Business

Start date: 2015

Duration: 1 month

4 Name of the project: 2243/0722: Estudio vibratorio de la línea de Alta Velocidad Madrid-Galicia. Tramo: Zamora-Pedralba de Pradería

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Pedro Galvín Barrera

Nº of researchers: 5

Funding entity or bodies:

ADIF-PROINTEC S.A.

Start date: 2014

Duration: 9 months

5 Name of the project: IPT-370000-2010-12: VIADINTEGRA: Integración de la Monitorización de Viaductos ferroviarios en el sistema de gestión y mantenimiento de infraestructuras. Subprograma INNPACTO

Identify key words: Civil engineering; Transport

Type of project: Research and development, including transfer

Entity where project took place: Universitat Jaume I

Degree of contribution: Researcher

Entity where project took place: Universitat Jaume I

Type of entity: University

Name principal investigator (PI, Co-PI....): María de los Dolores Martínez Rodrigo

Nº of researchers: 3

Funding entity or bodies:

UNIVERSIDAD DE GRANADA

Type of entity: University

City funding entity: Granada, Andalusia, Spain

Type of project: Cooperation

Name of the programme: Contrato de Investigación

Start date: 2012

Duration: 10 months - 18 days

Total amount: 28.800 €

Sub-project amount: 28.800 €

Relevant results: Subcontratación del Departamento de Ingeniería Mecánica y Construcción de la Universitat Jaume I de Castellón por la Universidad de Granada en el marco del desarrollo del proyecto VIADINTEGRA: "Integración de la Monitorización de Viaductos Ferroviarios en el Sistema de Gestión y Mantenimiento de Infraestructuras", financiado a través del subprograma INNPACTO del Programa Nacional de Cooperación Público-Privada (ORDEN CIN/1337/2010; BOE nº 125, 22 mayo 2010). Este proyecto fue concedido a un consorcio del que forma parte la Universidad de Granada, y que lidera la empresa PROINTEC S.A. Las tareas subcontratadas en el marco de este contrato están relacionadas con el desarrollo de modelos numéricos estructurales para la predicción del comportamiento dinámico de puentes ferroviarios de diferentes tipologías.

6 Name of the project: 0787/201: Estudio vibratorio de la línea de Alta Velocidad Madrid-Asturias. Tramo: Palencia-León

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Pedro Galvín Barrera

Nº of researchers: 4

Funding entity or bodies:

ADIF-PROINTEC S.A.

Start date: 2011

Duration: 14 months

- 7** **Name of the project:** PSE-370000-2009-10: VIADINTEL: Viaductos Ferroviarios Inteligentes. Proyectos singulares y estratégicos del P.N. 2008-2011
Identify key words: Civil engineering; Rail transport
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services
Entity where project took place: Universitat Jaume I
Degree of contribution: Scientific coordinator
Entity where project took place: Universitat Jaume I
Name principal investigator (PI, Co-PI....): María de los Dolores Martínez Rodrigo
Nº of researchers: 3
Funding entity or bodies: UNIVERSIDAD DE GRANADA
Type of entity: University
City funding entity: Granada, Spain
Type of project: Cooperation
Name of the programme: Contrato de investigación
Start date: 10/03/2010
Duration: 9 months
Total amount: 11.389 €
Sub-project amount: 11.389 €
Relevant results: Subcontratación del Departamento de Ingeniería Mecánica y Construcción de la Universitat Jaume I de Castellón por la Universidad de Granada en el marco del desarrollo del proyecto "VIADINTEL: Viaductos Ferroviarios Inteligentes", proyecto de investigación financiado en el subprograma de Proyectos Singulares y Estratégicos del Programa Nacional de Cooperación Público-Privada (ORDEN CIN/1657/2009; BOE nº 150, 22 junio 2009), Línea Instrumental de Articulación e Internacionalización del Sistema, Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica 2008-2011. Este proyecto fue concedido a un consorcio del que forma parte la Universidad de Granada, siendo la entidad líder y coordinadora del proyecto la Fundación Caminos de Hierro. Las tareas subcontratadas en el marco de este contrato están relacionadas con el desarrollo de modelos numéricos estructurales para la predicción del comportamiento dinámico de puentes ferroviarios de diferentes tipologías.
- 8** **Name of the project:** 3855/2009: Análisis de bastidores de sujeción de paneles solares a instalar sobre las cubiertas de tres naves industriales en la provincia de Alicante
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): David Hernández Figueirido
Nº of researchers: 3
Funding entity or bodies: Elektrosol Alicante S.L.
Type of entity: Business
Start date: 2009
Duration: 1 month
- 9** **Name of the project:** 2152/2005: Asistencia técnica para el estudio uniones atornilladas para la industria petroquímica
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): María Dolores Martínez Rodrigo
Nº of researchers: 2
Funding entity or bodies: UBE Corporation Europe - Ingeniería Martí Guillamón
Type of entity: Business
Start date: 2005
Duration: 3 months
- 10** **Name of the project:** 0100/2004: Asistencia técnica para el estudio de seguridad y funcionalidad de una estructura de acero para una planta de proceso de fosfatos de la empresa Ercros en Cartagena
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Pascual Martí Montrull



Nº of researchers: 8

Funding entity or bodies:

Grupo ERCROS

Type of entity: Business

Start date: 2004

Duration: 6 months

11 Name of the project: 0508/2003: Pruebas de carga de dispositivos de cubrimiento y cierre para zonas de circulación utilizadas por peatones y vehículos

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Manuel Romero García

Nº of researchers: 2

Funding entity or bodies:

BECSA Construcción

Type of entity: Business

Start date: 2003

Duration: 3 months

12 Name of the project: 1121/2002: Asesoría estructural de una cimentación industrial

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Manuel Romero García

Nº of researchers: 2

Funding entity or bodies:

ELECTRANATURA Servicios Integrales S.L.

Type of entity: Business

Start date: 2002

Results

Industrial and intellectual property

Title registered industrial property: Sistema de reacondicionamiento de puentes mediante elementos de disipación pasiva

Description of qualities: Sistema de reacondicionamiento de puentes mediante elementos de disipación pasiva, que comprende, al menos, una pluralidad de amortiguadores, apoyados en las vigas auxiliares y anclados a las mismas; y donde las vigas auxiliares se encuentran ancladas al paramento interior del alzado del estribo, y empotradas en el mismo.

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Pedro Museros Romero; José Lavado Rodríguez; María Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Alejandro Castillo Linares; Jorge Nasarre y de Goicoechea

Entity holder of rights: Universidad de Granada, Universitat Jaume I, Fundación Caminos de Hierro para la Investigación y la Ingeniería Ferroviaria

Nº of application: 2 372 095

Country of inscription: Spain

Date of register: 30/04/2008

Conferral date: 13/11/2012

Nº of patent: ES 2 372 095 B1



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** J.C. Sánchez-Quesada; E. Moliner; A. Romero; P. Galvín; M.D. Martínez-Rodrigo. Ballasted track interaction effects in railway bridges with simply-supported spans composed by adjacent twin single-track decks. ENGINEERING STRUCTURES. 247 - 113062, Elsevier, 2021. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2021.113062
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
Total no. authors: 5
Impact source: ISI **Category:** Science Edition - ENGINEERING, CIVIL
Impact index in year of publication: 3.548 **Journal in the top 25%:** Yes
Position of publication: 19 **No. of journals in the cat.:** 134
Relevant publication: Yes
- 2** María de los Dolores Martínez Rodrigo. Atenuación de vibraciones resonantes en puentes de ferrocarril de alta velocidad mediante amortiguadores fluido-viscosos. Premio COMSA EMTE de Ferrocarriles IX Edición 2010. COMSA-EMTE, 2010. ISBN 978-84-693-7521-1
Type of production: Scientific book or monograph **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of entire book
Total no. authors: 1
Reviews in journals: 1
Relevant publication: Yes
- 3** Juan C. Sánchez Quesada; Antonio Romero Ordóñez; Pedro Galvín Barrera; Emmanuela Moliner Cabedo; Maria D. Martinez Rodrigo. 3D analysis of railway induced vibrations on skew girder bridges including ballast track-bridge interaction effects. ENGINEERING STRUCTURES. 279 - 115546, Elsevier, 2023. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2022.115546
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
Total no. authors: 5 **Corresponding author:** No
- 4** J. Chordà-Monsonís; A. Romero; E. Moliner; P. Galvín; M.D. Martinez-Rodrigo. Ballast shear effects on the dynamic response of railway bridges. ENGINEERING STRUCTURES. pp. 1 - 19. Elsevier, 2022.
DOI: 10.1016/j.engstruct.2022.114957
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
Total no. authors: 5 **Corresponding author:** No
- 5** E. Moliner; M.D. Martinez-Rodrigo; P. Galvín; J. Chordà-Monsonís; A. Romero. On the vertical coupling effect of ballasted tracks in multi-span simply-supported railway bridges under operating conditions. STRUCTURE AND INFRASTRUCTURE ENGINEERING. pp. 1 - 23. Taylor & Francis, 2022.
DOI: 10.1080/15732479.2022.2049828



Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Format: Journal

Corresponding author: No

- 6** Antonio Romero Ordóñez; J.C. Cámara Molina; Emmanuela Moliner Cabedo; Pedro Galvín Barrera; María Dolores Martínez Rodrigo. Energy harvesting analysis in railway bridges: An approach based on modal decomposition. MECHANICAL SYSTEMS AND SIGNAL PROCESSING. 160 - 107848, Elsevier, 2021. ISSN 0888-3270

DOI: 10.1016/j.ymssp.2021.107848

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 6.471

Position of publication: 5

Format: Journal

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

Corresponding author: No

Category: ENGINEERING, MECHANICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 130

- 7** John Hallak Neilson; Aida Ibisevic; Hassanhüseyin Ugur; Jean-Marc Battini; Roberto Crocetti; Costin Pacoste; María Dolores Martínez Rodrigo. Experimental and numerical dynamic properties of two timber footbridges including seasonal effects. INTERNATIONAL JOURNAL OF CIVIL ENGINEERING. 19, pp. 1239 - 1250. Springer, 2021. ISSN 2348 - 8352

DOI: 10.1007/s40999-021-00624-w

Type of production: Scientific paper

Position of signature: 7

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 1.446

Position of publication: 85

Format: Journal

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

Corresponding author: No

Category: ENGINEERING, CIVIL

Journal in the top 25%: No

No. of journals in the cat.: 134

- 8** P. Galvín; A. Romero; E. Moliner; D.P. Connolly; M.D. Martínez-Rodrigo. Fast simulation of railway bridge dynamics accounting for soil-structure interaction. BULLETIN OF EARTHQUAKE ENGINEERING. Springer, 2021.

DOI: 10.1007/s10518-021-01191-0

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 5

Format: Journal

Corresponding author: No

- 9** Pedro Galvín Barrera; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo; Guido de Roeck; María Dolores Martínez Rodrigo. On the dynamic characterisation of railway bridges through experimental testing. ENGINEERING STRUCTURES. 111261, Elsevier, 2021. ISSN 0141-0296

DOI: 10.1016/j.engstruct.2020.111261

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 3.548

Position of publication: 19

Format: Journal

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

Corresponding author: No

Category: ENGINEERING, CIVIL

Journal in the top 25%: Yes

No. of journals in the cat.: 134

- 10** María Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Guido De Roeck; Pedro Galvín Barrera. Maximum resonance and cancellation phenomena in orthotropic plates traversed by moving loads: Application to railway bridges. INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES. 169 - 105316, Elsevier, 2020. ISSN 0020-7403
DOI: 10.1016/j.ijmecsci.2019.105316
Type of production: Scientific paper
Position of signature: 1

Total no. authors: 5
Impact source: ISI

Impact index in year of publication: 4.631
Position of publication: 14

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Science Edition - ENGINEERING, MECHANICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 130
- 11** María Dolores Martínez Rodrigo; Andreas Andersson; Costin Pacoste; Raid Karoumi. Resonance and cancellation phenomena in two-span continuous beams and its application to railway bridges. ENGINEERING STRUCTURES. 222 - 111103, Elsevier, 2020. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2020.111103
Type of production: Scientific paper
Position of signature: 1

Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 3.584
Position of publication: 19

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 134
- 12** J.D. Yau; María Dolores Martínez Rodrigo; Alejandro Doménech Monforte. An equivalent additional damping approach to assess vehicle-bridge interaction for train-induced vibration of short-span railway bridges. ENGINEERING STRUCTURES. 188, pp. 496 - 479. Elsevier, 2019. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2019.01.144
Type of production: Scientific paper
Position of signature: 2

Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 3.584
Position of publication: 19

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 134
- 13** Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Pedro Galvín Barrera; María Dolores Martínez Rodrigo. Effect of the end cross beams on the railway induced vibrations of short girder bridges. ENGINEERING STRUCTURES. 201 - 109728, Elsevier, 2019. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2019.109728
Type of production: Scientific paper
Position of signature: 4

Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 3.584
Position of publication: 19

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 134

- 14** María Dolores Martínez Rodrigo; Pedro Galvín Barrera; Alejandro Doménech Monforte; Antonio Romero Ordóñez. Effect of soil properties on the dynamic response of simply-supported bridges under railway traffic through coupled boundary element-finite element analyses. ENGINEERING STRUCTURES. 170, pp. 78 - 90. Elsevier, 2018. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2018.02.089
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 3.084
Position of publication: 22
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 132
- 15** Pedro Galvín Barrera; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo; María Dolores Martínez Rodrigo. Two FE models to analyse the dynamic response of short span simply-supported oblique High-Speed railway bridges: comparison and experimental validation. ENGINEERING STRUCTURES. 167, pp. 48 - 64. ELSEVIER, 2018. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2018.03.052
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 3.084
Position of publication: 22
Format: Journal
Corresponding author: Yes
Category: ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 132
- 16** Emmanuela Moliner Cabedo; María Dolores Martínez Rodrigo; Pedro Museros Romero. Dynamic performance of existing double track railway bridges at resonance with the increase of the operational line speed. ENGINEERING STRUCTURES. 132, pp. 98 - 109. Elsevier, 2017. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2016.11.031
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 2.755
Position of publication: 19
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 128
- 17** Alejandro Doménech Monforte; María Dolores Martínez Rodrigo; Antonio Romero Ordóñez; Pedro Galvín Barrera. On the basic phenomenon of soil-structure interaction on the free vibration response of beams: Application to railway bridges. ENGINEERING STRUCTURES. 125, pp. 254 - 265. Elsevier, 2016. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2016.06.052
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 2.258
Position of publication: 26
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 125

- 18** María de los Dolores Martínez Rodrigo; André Filiatrault. A case study on the application of passive control and seismic isolation techniques to cable-stayed bridges: A comparative investigation through non-linear dynamic analyses. ENGINEERING STRUCTURES. 99, pp. 232 - 252. 2015. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2015.04.048
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 2
Impact source: ISI
Impact index in year of publication: 1.893
Position of publication: 28
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Engineering, Civil
Journal in the top 25%: Yes
No. of journals in the cat.: 126
- 19** Alejandro Doménech Monforte; María de los Dolores Martínez Rodrigo; Antonio Romero Ordóñez; Pedro Galvín Barrera. Soil-structure interaction effects on the resonant response of railway bridges under high-speed traffic. INTERNATIONAL JOURNAL OF RAIL TRANSPORTATION. 4 (3), pp. 201 - 214. 2015. ISSN 2324-8378
DOI: 10.1080/23248378.2015.1076621
Type of production: Scientific paper
Position of signature: 2
Corresponding author: Yes
Impact source: ISI
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Emerging Sources Citation Index
- 20** José Lavado Rodríguez; Alejandro Doménech Monforte; María de los Dolores Martínez Rodrigo. Dynamic performance of existing high-speed railway bridges under resonant conditions following a retrofit with fluid viscous dampers supported on clamped auxiliary beams. ENGINEERING STRUCTURES. 59, pp. 355 - 374. 2014. ISSN 0141-0296
DOI: 10.1016/j.engstruct.2013.10.038
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 1.838
Position of publication: 21
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Science Edition - ENGINEERING, CIVIL
Journal in the top 25%: Yes
No. of journals in the cat.: 125
- 21** M. Luu; María de los Dolores Martínez Rodrigo; V. Zabel; C. Könke. H infinity optimization of fluid viscous dampers for reducing vibrations of high-speed railway bridges. JOURNAL OF SOUND AND VIBRATION. 9 (333), pp. 2421 - 2442. 2014. ISSN 0022-460X
DOI: 10.1016/j.jsv.2013.12.030
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 1.813
Position of publication: 25
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Engineering, Mechanical
Journal in the top 25%: Yes
No. of journals in the cat.: 129
- 22** Alejandro Doménech Monforte; Pedro Museros Romero; María de los Dolores Martínez Rodrigo. Influence of the vehicle model on the prediction of the maximum bending response of simply-supported bridges under high-speed railway traffic. ENGINEERING STRUCTURES. 72, pp. 123 - 139. 2014. ISSN 0141-0296

**DOI:** 10.1016/j.engstruct.2014.04.037**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 1.838**Position of publication:** 21**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - ENGINEERING, CIVIL**Journal in the top 25%:** Yes**No. of journals in the cat.:** 125

- 23** M. Luu; María de los Dolores Martínez Rodrigo; V. Zabel; C. Könke. Semi-active magnetorheological dampers for reducing response of high-speed railway bridges. CONTROL ENGINEERING PRACTICE. 32, pp. 147 - 160. Elsevier, 2014. ISSN 0967-0661

DOI: 10.1016/j.conengprac.2014.08.006**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 1.814**Position of publication:** 21**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Automation & Control Systems**Journal in the top 25%:** No**No. of journals in the cat.:** 58

- 24** Pedro Museros Romero; Emmanuela Moliner Cabedo; María de los Dolores Martínez Rodrigo. Free vibrations of simply-supportde beam bridges under moving loads: Maximum resonance, cancellation and resonant vertical acceleration. JOURNAL OF SOUND AND VIBRATION. 332, pp. 326 - 345. 2013. ISSN 0022-460X

DOI: 10.1016/j.jsv.2012.08.008**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 1.857**Position of publication:** 26**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Engineering, Mechanical**Journal in the top 25%:** Yes**No. of journals in the cat.:** 128

- 25** María de los Dolores Martínez Rodrigo; José Lavado Rodríguez; Pedro Museros Romero. Mejora del comportamiento dinámico de puentes de ferrocarril mediante reaccionamiento con amortiguadores fluido-viscosos. VÍA LIBRE. INVESTIGACIÓN FERROVIARIA. 4, pp. 17 - 28. Fundación de los ferrocarriles españoles, 2012. ISSN 1134-1416

Type of production: Scientific paper**Position of signature:** 1**Total no. authors:** 3**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes

- 26** Emmanuela Moliner Cabedo; Pedro Museros Romero; María de los Dolores Martínez Rodrigo. Retrofit of existing railway bridgtes of short to medium spans for high-speed traffic using viscoelastic dampers. ENGINEERING STRUCTURES. 40, pp. 519 - 528. 2012. ISSN 0141-0296

DOI: 10.1016/j.engstruct.2012.03.016**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 3**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No



Impact source: ISI
Impact index in year of publication: 1.713
Position of publication: 18

Category: Engineering, Civil
Journal in the top 25%: Yes
No. of journals in the cat.: 122

- 27** María de los Dolores Martínez Rodrigo; Pedro Museros Romero. Optimal design of passive viscous dampers for controlling the resonant response of orthotropic plates under high-speed moving loads. JOURNAL OF SOUND AND VIBRATION. 330 - 7, pp. 1328 - 1351. 2011. ISSN 0022-460X

DOI: 10.1016/j.jsv.2010.10.017

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 2

Impact source: ISI

Impact index in year of publication: 1.588

Position of publication: 20

Format: Journal

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

Corresponding author: Yes

Category: Engineering, Mechanical

Journal in the top 25%: Yes

No. of journals in the cat.: 122

- 28** María de los Dolores Martínez Rodrigo; J. Lavado; P. Museros. Dynamic performance of existing High-Speed railway bridges under resonant conditions retrofitted with fluid viscous dampers. ENGINEERING STRUCTURES. 32 (32), pp. 808 - 828. 2010. ISSN 0141-0296

DOI: 10.1016/j.engstruct.2009.12.008

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 1.363

Position of publication: 21

Format: Journal

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

Category: Science Edition - ENGINEERING, CIVIL

Journal in the top 25%: Yes

No. of journals in the cat.: 115

- 29** María de los Dolores Martínez Rodrigo; José Lavado Rodríguez; Pedro Museros Romero. Transverse vibrations in existing railway bridges under resonant conditions: Single-track versus double-track configurations. ENGINEERING STRUCTURES. 32 - 7, pp. 1861 - 1875. 2010. ISSN 0141-0296

DOI: 10.1016/j.engstruct.2010.02.022

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 1.363

Position of publication: 21

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - ENGINEERING, CIVIL

Journal in the top 25%: Yes

No. of journals in the cat.: 115

- 30** María de los Dolores Martínez Rodrigo; Pedro Museros Romero. Vibration control of simply supported beams under moving loads using fluid viscous dampers. JOURNAL OF SOUND AND VIBRATION. 300 - 1-2, pp. 292 - 315. Elsevier, 2007. ISSN 0022-460X

DOI: 10.1016/j.jsv.2006.08.007

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 2

Impact source: ISI

Impact index in year of publication: 1.204

Format: Journal

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

Corresponding author: No

Category: Engineering, Mechanical

Journal in the top 25%: Yes

**Position of publication:** 23**No. of journals in the cat.:** 107

- 31** María de los Dolores Martínez Rodrigo; Enrique Luco. Seismic base-insolation by use of a telescoping stepping mechanism. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS. 34, pp. 227 - 245. John Wiley & Sons, 2005. ISSN 0098-8847

DOI: 10.1002/eqe.421**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 2**Impact source:** ISI**Impact index in year of publication:** 0.788**Position of publication:** 16**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Engineering, Civil**Journal in the top 25%:** Yes**No. of journals in the cat.:** 80

- 32** María de los Dolores Martínez Rodrigo; Manuel Luis Romero García. And optimum retrofit strategy for moment resisting frames with nonlinear viscous dampers for seismic applications. ENGINEERING STRUCTURES. 7 (25), pp. 913 - 925. 2003. ISSN 0141-0296

Type of production: Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

- 33** María Dolores Martínez Rodrigo; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo; Josep Chordà Monsonís; Pedro Galvín Barrera. Influence of ballast track on vertical response of multi-span simply-supported bridges under railway traffic. COMPUTATIONAL AND EXPERIMENTAL SIMULATIONS IN ENGINEERING. Atluri S.N., Vušanović I., 2021. ISBN 978-3-030-64689-9

DOI: 10.1007/978-3-030-64690-5_1**Type of production:** Book chapter**Position of signature:** 1**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Corresponding author:** Yes**Total no. authors:** 5

- 34** María D. Martínez Rodrigo; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo; Josep Chordà Monsonís; Pedro Galvín Barrera. Influence of ballast track on vertical response of multi-span simply-supported bridges under railway traffic. Computational and Experimental Simulations in Engineering. ICCES 2021. Mechanisms and Machine Science. 97, Springer, Cham., 2021. Available on-line at: <https://doi.org/10.1007/978-3-030-64690-5_1>. ISBN 978-3-030-64689-9

Type of production: Book chapter**Corresponding author:** Yes**Format:** Book

- 35** Pedro Galvín Barrera; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo; María Dolores Martínez Rodrigo. Experimental analysis of Arroyo Bracea II bridge in Madrid – Sevilla High-Speed railway line: dynamic response of the structure and effect of soil properties. EXPERIMENTAL VIBRATION ANALYSIS FOR CIVIL STRUCTURES: TESTING, SENSING, MONITORING AND CONTROL. pp. 882 - 892. Springer, 2018. ISBN 978-3-319-67443-8

Type of production: Book chapter**Position of signature:** 4**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Corresponding author:** Yes**Total no. authors:** 4

- 36** María Dolores Martínez Rodrigo; Alejandro Doménech Monforte; Antonio Romero Ordóñez; Pedro Galvín Barrera. Railway induced vibrations in beam bridges including soil-structure interaction through coupled boundary element-finite element analyses. INSIGHTS AND INNOVATIONS IN STRUCTURAL ENGINEERING, MECHANICS AND COMPUTATION. Taylor & Francis, 2017. ISBN 978-1-138-02927-9

**Type of production:** Book chapter**Position of signature:** 1**Total no. authors:** 4**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Corresponding author:** Yes

- 37** Pedro Museros Romero; J.M. Soria; María Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo. A simple formula for predicting the maximum vertical acceleration in simply-supported railway bridges under high-speed traffic. ISSUES ON MECHANICAL AND CIVIL ENGINEERING. A symposium to honour Professor Enrique Alarcón. Universidad Politécnica de Madrid Press, 2012. ISBN 978-84-939196-7-2

Type of production: Book chapter**Position of signature:** 3**Total no. authors:** 4**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Corresponding author:** No

- 38** María Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Antonio Romero Aro; Josep Chordà Monsonís; Pedro Galvín Barrera. Influence of ballast track on vertical response of multi-span simply-supported bridges under railway traffic. Computational and Experimental Simulations in Engineering. Springer Nature Switzerland AG, DOI: 10.1007/978-3-030-64690-5_1

Type of production: Book chapter**Position of signature:** 1**Total no. authors:** 5**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Corresponding author:** Yes

- 39** María Dolores Martínez Rodrigo. Atenuación de vibraciones resonantes en puentes de ferrocarril de Alta Velocidad mediante amortiguadores fluido-viscosos. Available on-line at: <<http://dx.doi.org/10.4995/Thesis/10251/4336>>. ISBN 978-84-692-8711-8

Type of production: Scientific book or monograph**Position of signature:** 1**Total no. authors:** 1**Format:** Book**Degree of contribution:** Author or co-author of entire book**Corresponding author:** Yes

Works submitted to national or international conferences

- 1** **Title of the work:** Coupling effect of the ballasted track on short simply-supported bridges composed by adjacent twin decks
Name of the conference: IABMAS 2022: Bridge safety, maintenance, management, life-cycle cost and sustainability
Corresponding author: Yes
City of event: Barcelona, Catalonia, Spain
Date of event: 12/09/2022
Organising entity: IABMAS, International Association for Bridge Maintenance and Safety
City organizing entity: Barcelona, Catalonia, Spain
 Maria D. Martinez Rodrigo; Juan Carlos Sánchez Quesada; Emmanuela Moliner Cabedo; Pedro Galvín Barrera; Antonio Romero Ordóñez. "Bridge Safety, Maintenance, Management, Life-Cycle, Resilience and Sustainability". ISBN 978-1-032-35623-5
- 2** **Title of the work:** Effect of the ballasted track on the dynamic response of multi-span railway bridges using a discrete approach
Name of the conference: ISMA2022 International Conference on Noise and Vibration Engineering
Corresponding author: No
City of event: Leuven, Belgium
Date of event: 12/09/2022



Organising entity: Katholieke Universiteit Leuven & LMSD

City organizing entity: Leuven, Belgium

Josep Chordà Monsonís; Maria D. Martínez Rodrigo; Pedro Galvín Barrera; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo. "Vibration Engineering USD2022 International Conference on Uncertainty in Structural Dynamics". ISBN 9789082893151

- 3 Title of the work:** Model updating of an oblique multi-span railway bridge and effect of transverse diaphragms on the dynamic performance

Name of the conference: ISMA2022 International Conference on Noise and Vibration Engineering

Corresponding author: No

City of event: Leuven, Belgium

Date of event: 12/09/2022

Organising entity: Katholieke Universiteit Leuven & LMSD

City organizing entity: Leuven, Belgium

Juan Carlos Sánchez Quesada; Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Pedro Galvín Barrera; Maria D. Martínez Rodrigo. "Vibration Engineering USD2022 International Conference on Uncertainty in Structural Dynamics". ISBN 9789082893151

- 4 Title of the work:** A fast approach to study the dynamic response of railway bridges accounting for soil-structure interaction

Name of the conference: CMMoST 2021: 6th international Conference on Mechanical Models in Structural Engineering

Corresponding author: No

City of event: Valladolid, Castile and León, Spain

Date of event: 01/12/2021

End date: 03/12/2021

Organising entity: Escuela de Ingenierías Industriales. Universidad de Valladolid

City organizing entity: Valladolid, Castile and León, Spain

Pedro Galvín Barrera; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo; David P. Connolly; María D. Martínez Rodrigo. "6th international Conference on Mechanical Models in Structural Engineering. Book of abstracts".

- 5 Title of the work:** A fast methodology to study the dynamic performance of railway bridges accounting for soil-structure interaction

Name of the conference: CEES 2021: International Conference. Construction, energy, environment & sustainability

Corresponding author: No

City of event: Coimbra, Portugal

Date of event: 12/10/2021

End date: 15/10/2021

Organising entity: ITECONS: Institute for Research and Technological Development for Construction, Energy, Environment and Sustainability

City organizing entity: Coimbra, Portugal

Pedro Galvín Barrera; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo; David P. Connolly; María D. Martínez Rodrigo. "CEES 2021: International Conference. Construction, energy, environment & sustainability".

- 6 Title of the work:** Ballast track-bridge interaction in single-track railway bridges of different typologies

Name of the conference: DinEst 2021: 2nd Conference on Structural Dynamics

Corresponding author: Yes

City of event: Gijón, Principality of Asturias, Spain

Date of event: 22/07/2021

End date: 23/07/2021

Organising entity: Escuela Politécnica de Ingeniería de Gijón

City organizing entity: Gijón, Principality of Asturias, Spain

Josep Chordà Monsonís; María D. Martínez Rodrigo; Pedro Galvín Barrera; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo. "Proceedings of the DINEST 2021". ISBN 978-84-09-30799-9

- 7** **Title of the work:** Experimental measurements on railway bridges belonging to Spanish lines
Name of the conference: DinEst 2021: 2nd Conference on Structural Dynamics
Corresponding author: Yes
City of event: Gijón, Principality of Asturias, Spain
Date of event: 22/07/2021
End date: 23/07/2021
Organising entity: Escuela Politécnica de Ingeniería de Gijón
City organizing entity: Gijón, Principality of Asturias, Spain
Pedro Galvín Barrera; Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; María D. Martínez Rodrigo. "Proceedings of the DINEST 2021". ISBN 978-84-09-30799-9
- 8** **Title of the work:** Railway induced vertical vibrations in two-span continuous bridges
Name of the conference: DinEst 2021: 2nd Conference on Structural Dynamics
Corresponding author: Yes
City of event: Gijón, Principality of Asturias, Spain
Date of event: 22/07/2021
End date: 23/07/2021
Organising entity: Escuela Politécnica de Ingeniería de Gijón
City organizing entity: Gijón, Principality of Asturias, Spain
María D. Martínez Rodrigo; Andreas Andersson; Costin Pacoste; Raid Karoumi. "Proceedings of the DINEST 2021". ISBN 978-84-09-30799-9
- 9** **Title of the work:** Track-bridge interaction in railway bridges composed by single-track adjacent decks using 3d FE models
Name of the conference: DinEst 2021: 2nd Conference on Structural Dynamics
Corresponding author: Yes
City of event: Gijón, Principality of Asturias, Spain
Date of event: 22/07/2021
End date: 23/07/2021
Organising entity: Escuela Politécnica de Ingeniería de Gijón
City organizing entity: Gijón, Principality of Asturias, Spain
Juan Carlos Sánchez Quesada; Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Pedro Galvín Barrera; María D. Martínez Rodrigo. "Proceedings of the DINEST 2021". ISBN 978-84-09-30799-9
- 10** **Title of the work:** Analysis of the influence of the ballast track in the dynamic behaviour of single-track railway bridges of different typologies
Name of the conference: 6th ECCOMAS Young Investigators Conference
Corresponding author: No
City of event: Valencia, Valencian Community, Spain
Date of event: 07/07/2021
End date: 09/07/2021
Organising entity: ECCOMAS
City organizing entity: Valencia, Valencian Community, Spain
Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Pedro Galvín Barrera; María D. Martínez Rodrigo; Josep Chordà Monsonís. "Book of Extended Abstracts of the 6th ECCOMAS Young Investigators Conference".

DOI: 10.4995/YIC2021.2021.12220

- 11 Title of the work:** Influence of track modelling in modal parameters of railway bridges composed by single-track adjacent decks
Name of the conference: 6th ECCOMAS Young Investigators Conference
Corresponding author: No
City of event: Valencia, Valencian Community, Spain
Date of event: 07/07/2021
End date: 09/07/2021
Organising entity: ECCOMAS
City organizing entity: Valencia, Valencian Community, Spain
Juan Carlos Sánchez Quesada; Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Pedro Galvín Barrera; María D. Martínez Rodrigo. "Book of Extended Abstracts of the 6th ECCOMAS Young Investigators Conference".
DOI: 10.4995/YIC2021.2021.12220
- 12 Title of the work:** Dynamic properties of two pedestrian wooden bridges including seasonal effects
Name of the conference: EURODYN 2020: XI International Conference on Structural Dynamics
Corresponding author: No
City of event: Athens, Greece
Date of event: 23/11/2020
Organising entity: European Association for Structural Dynamics
John Hallak Neilson; Aida Ibisevic; Hasanhüseyn Ugur; Jean-Marc Battini; Roberto Crocetti; Costin Pacoste; María Dolores Martínez Rodrigo. "Proceedings of the XI International Conference on Structural Dynamics". ISBN 978-618-85072-2-7
- 13 Title of the work:** Experimental study of railway bridges of several structural typologies
Name of the conference: EURODYN 2020: XI International Conference on Structural Dynamics
Corresponding author: No
City of event: Athens, Greece
Date of event: 23/11/2020
Organising entity: European Association for Structural Dynamics
Pedro Galvín Barrera; Emmanuela Moliner Cabedo; Antonio Romero Aro; María D. Martínez Rodrigo. "Proceedings of the XI International Conference on Structural Dynamics". ISBN 978-618-85072-2-7
- 14 Title of the work:** Rail-bridge interaction effects in single-track multi-span bridges. Experimental results versus numerical predictions under operating conditions
Name of the conference: EURODYN 2020: XI International Conference on Structural Dynamics
Corresponding author: Yes
City of event: Athens, Greece
Date of event: 23/11/2020
Organising entity: European Association for Structural Dynamics
María D. Martínez Rodrigo; Pedro Galvín Barrera; Emmanuela Moliner Cabedo; Antonio Romero Aro. "Proceedings of the XI International Conference on Structural Dynamics". ISBN 978-618-85072-2-7
- 15 Title of the work:** Vertical coupling effect of the ballasted track on the dynamic behavior of multitrack railway bridges composed by adjacents decks
Name of the conference: EURODYN 2020: XI International Conference on Structural Dynamics
Corresponding author: No
City of event: Athens, Greece
Date of event: 23/11/2020
Organising entity: European Association for Structural Dynamics



Emmanuela Moliner Cabedo; Antonio Romero Aro; Juan Carlos Sánchez Quesada; María D. Martínez Rodrigo; Pedro Galván Barrera. "Proceedings of the XI International Conference on Structural Dynamics". ISBN 978-618-85072-2-7

- 16** **Title of the work:** Effect of transverse stiffness at span ends in double track short high-speed railway bridges on the railway induced vibrations
Name of the conference: The 16th International Conference on Soft Computing & Optimisation in Civil, Structural and Environmental Engineering
Type of event: Conference
Corresponding author: No
City of event: Riva del Garda, India
Date of event: 16/09/2019
Organising entity: Civil-Comp Conferences
Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; María Dolores Martínez Rodrigo; Pedro Galván Barrera.
- 17** **Title of the work:** Railway induced vibrations in two-span continuous bridges: resonance and cancellation phenomena
Name of the conference: The 16th International Conference on Soft Computing & Optimisation in Civil, Structural and Environmental Engineering
Type of event: Conference
Corresponding author: Yes
City of event: Riva del Garda, India
Date of event: 16/09/2019
End date: 19/09/2018
Organising entity: Civil-Comp Conferences
María Dolores Martínez Rodrigo; Andreas Andersson; Costin Pacoste; Raid Karoumi.
- 18** **Title of the work:** Influence of transverse bracing beams on the dynamic behaviour of Arroyo Bracea I bridge in Madrid-Sevilla High-Speed railway line
Name of the conference: ISMA 2018 International Conference on Noise and Vibration Engineering
Corresponding author: No
City of event: Leuven, Belgium
Date of event: 17/09/2018
Organising entity: Katholieke Universiteit Leuven
Emmanuela Moliner Cabedo; Pedro Galván Barrera; María Dolores Martínez Rodrigo; Antonio Romero Ordóñez. "Proceedings of the ISMA 2018 International Conference on Noise and Vibration Engineering".
- 19** **Title of the work:** Resonance and cancellation mechanisms in existing High-Speed railway bridges with an orthotropic plate behaviour
Name of the conference: ISMA 2018 International Conference on Noise and Vibration Engineering
Corresponding author: Yes
City of event: Leuven, Belgium
Date of event: 17/09/2018
Organising entity: Katholieke Universiteit Leuven
María Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Pedro Galván Barrera. "Proceedings of the ISMA 2018 International Conference on Noise and Vibration Engineering".
- 20** **Title of the work:** Advances in the simulation of the dynamic behaviour of short simply-supported girder bridges: transverse behaviour and comparison with experimental measurements
Name of the conference: RAILWAYS 2018: 4th International Conference on Railways Technology
Corresponding author: No



City of event: Sitges, Catalonia, Spain

Date of event: 03/09/2018

Organising entity: Civil-Comp

Emmanuela Moliner Cabedo; María Dolores Martínez Rodrigo; Antonio Romero Ordóñez; Pedro Galvín Barrera. "4th International Conference on Railways Technology".

- 21 Title of the work:** On the prediction of maximum resonance and cancellation of resonance in orthotropic plates: Application to railway bridges

Name of the conference: RAILWAYS 2018: 4th International Conference on Railways Technology

Corresponding author: No

City of event: Sitges, Catalonia, Spain

Date of event: 03/09/2018

Organising entity: Civil-Comp

Pedro Galvín Barrera; María Dolores Martínez Rodrigo; Antonio Romero Ordóñez; Emmanuela Moliner Cabedo. "4th International Conference on Railways Technology".

- 22 Title of the work:** Dynamic response of a short simply-supported girder bridge under railway excitation: effect of bracing beams on the transverse behaviour

Name of the conference: 1st Conference on Structural Dynamics

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 20/06/2018

Organising entity: Universidad Politécnica de Madrid

Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; Pedro Galvín Barrera; María Dolores Martínez Rodrigo. "Proceedings of the 1st Conference on Structural Dynamics".

- 23 Title of the work:** Resonance and cancellation in double-track simplysupported railway bridges: theoretical predictions versus experimental measurements

Name of the conference: 1st Conference on Structural Dynamics

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 20/06/2018

Organising entity: Universidad Politécnica de Madrid

María Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Pedro Galvín Barrera; Antonio Romero Ordóñez. "Proceedings of the 1st Conference on Structural Dynamics".

- 24 Title of the work:** Investigation of the dynamic response and effect of soil properties of Arroyo Bracea II bridge in Madrid-Sevilla High-Speed railway line through experimental analyses

Name of the conference: EURODEX 2017 - X International Conference on Structural Dynamics

Corresponding author: No

City of event: Roma, Italy

Date of event: 10/09/2017

Organising entity: European Association for Structural Dynamics

Pedro Galvín Barrera; Emmanuela Moliner Cabedo; Antonio Romero Ordóñez; María Dolores Martínez Rodrigo. En: Procedia Engineering. 199, pp. 3021 - 3026. Elsevier,

- 25 Title of the work:** Railway induced vibrations in beam bridges including soil-structure interaction through coupled boundary element-finite element analyses

Name of the conference: SEMC 2016 - 6th International Conference on Structural Engineering, Mechanics and Computation

Type of event: Conference

Corresponding author: Yes



City of event: Ciuda del Cabo, South African Republic

Date of event: 05/09/2016

Organising entity: Prof. Zingoni, University of Cape Town

Type of entity: University

Type of contribution: Book chapter

María Dolores Martínez Rodrigo; Alejandro Doménech Monforte; Antonio Romero Ordóñez; Pedro Galvín Barrera.

26 Title of the work: Recent advances in the assessment of noise and vibration from railway systems

Name of the conference: X Jornadas Internacionales: Ingeniería para Alta Velocidad

Type of event: Workshop

Corresponding author: No

City of event: Córdoba, Andalusia, Spain

Date of event: 21/06/2016

Organising entity: Fundación Caminos de Hierro para la Investigación y la Ingeniería Ferroviaria

Type of entity: R&D Centre

Type of contribution: Scientific paper

Antonio Romero Ordóñez; Pedro Galvín Barrera; Daniel López Mendoza; A. Tadeu; J. António; Alejandro Doménech Monforte; María Dolores Martínez Rodrigo. "Ingeniería para Alta Velocidad. X Jornadas Internacionales".

27 Title of the work: Analysis of the effect of soil-structure interaction on the response of railway bridges using boundary element-finite element methods

Name of the conference: RAILWAYS 2016 - 3rd International Conference on Railway Technology: Research, Development and Maintenance

Type of event: Conference

Corresponding author: No

City of event: Cagliari, Sardegna, Italy

Date of event: 05/04/2016

Organising entity: Civil-Comp Press

Type of contribution: Scientific paper

Alejandro Doménech Monforte; María Dolores Martínez Rodrigo; Pedro Galvín Barrera; Antonio Romero Ordóñez. "Proceedings of the Third International Conference on Railway Technology: Research, Development and Maintenance". ISSN 1759-3433, ISBN 978-1-905088-65-2

28 Title of the work: Soil-structure interaction effects on the resonant response of railway bridges under high-speed traffic

Name of the conference: ICSV22 - 22th International Congress on Sound and Vibration

Type of event: Conference

Corresponding author: No

City of event: Florencia, Italy

Date of event: 12/07/2015

Organising entity: International Institute of Acoustics and Vibration (IIAV) and the Acoustical Society of Italy (AIA)

Type of entity: R&D Centre

Type of contribution: Scientific paper

Antonio Romero Ordóñez; Pedro Galvín Barrera; Alejandro Doménech Monforte; María de los Dolores Martínez Rodrigo. "The 22 International Congress on Sound and Vibration". En: 22th International Congress on Sound and Vibration (ICSV22). (Italy): 2015. Available on-line at: <<http://dx.doi.org/10.1080/23248378.2015.1076621>>. ISSN 2324-8378



- 29** **Title of the work:** Soil-Structure Interaction Effects on the Transverse Response of Beam Bridges under Moving Loads and its Application to Railway Trafficm (Abstract)
Name of the conference: CMN 2015 - Congreso en Métodos Numéricos en Ingeniería
Type of event: Conference
Corresponding author: Yes
City of event: Lisboa, Portugal
Date of event: 29/06/2015
Organising entity: Instituto Superior Técnico de Lisboa
Type of entity: University
Type of contribution: Scientific paper
Alejandro Doménech Monforte; Antonio Romero Ordóñez; María de los Dolores Martínez Rodrigo; Pedro Galvín Barrera. "CMN 2015 Congreso en Métodos Numéricos en Ingeniería". En: Congreso en Métodos Numéricos en Ingeniería (CMN 2015). APMTAC, Libro Resumos (CMN 2015), Pag 1-9, 2015. ISBN 978-989-99410-0-7
- 30** **Title of the work:** Efecto de la Interacción suelo-estructura en la respuesta en vibración libre de vigas. Aplicación al análisis vibratorio de tableros ferroviarios
Name of the conference: IX Jornadas Internacionales de Ingeniería para Alta Velocidad
Type of event: Conference
Corresponding author: No
City of event: Córdoba, Andalusia, Spain
Date of event: 17/06/2015
Organising entity: Fundación Caminos de Hierro para la Investigación y la Ingeniería Ferroviaria
Type of entity: R&D Centre
Type of contribution: Scientific paper
Antonio Romero Ordóñez; Pedro Galvín Barrera; Alejandro Doménech Monforte; María de los Dolores Martínez Rodrigo. "Ingeniería para Alta Velocidad. IX Jornadas Internacionales". En: Ingeniería para Alta Velocidad. IX Jornadas Internacionales. (Spain): Fundacion Caminos De Hierro, 2015. ISBN 978-84-617-0115-5
- 31** **Title of the work:** Un enfoque conservador en la evaluación de la influencia del modelo del vehículo en el diseño de puentes de ferrocarril isostáticos para alta velocidad
Name of the conference: VIII Jornadas Internacionales de Ingeniería para Alta Velocidad
Type of event: Conference
Corresponding author: No
City of event: Córdoba, Andalusia, Spain
Date of event: 25/06/2014
Organising entity: Fundación Caminos de Hierro para la Investigación y la Ingeniería Ferroviaria
City organizing entity: Madrid, Community of Madrid, Spain
Type of contribution: Scientific paper
Alejandro Doménech Monforte; Pedro Museros Romero; María de los Dolores Martínez Rodrigo. "VIII Jornadas Internacionales de Ingeniería para Alta Velocidad". En: VIII Jornadas Internacionales de Ingeniería para Alta Velocidad. (Spain): Fundación Caminos de Hierro, Pags 63-80, 2014. ISBN 978-84-617-0115-5
- 32** **Title of the work:** Influence of the vehicle-structure interaction in the design of High-Speed railway bridges
Name of the conference: RAILWAYS 2014 - Second International Conference on Railway Technology: Research, Development and maintenance
Type of event: Conference
Corresponding author: No
City of event: Corsia, France, France
Date of event: 08/04/2014



Organising entity: Civil-Comp Press

Type of contribution: Scientific paper

Alejandro Doménech Monforte; Pedro Museros Romero; María de los Dolores Martínez Rodrigo.

"Proceedings of the Second International Conference on Railway Technology: Research, Development and Maintenance,". En: Second International Conference on Railway Technology: Research, Development and maintenance. (France): Civil-Comp Proceedings, N° 104, Paper 76, Pag 1-17, 2014. ISBN 978-1-905088-59-1

- 33 Title of the work:** Seismic retrofit of a cable-stayed bridge with passive control techniques: A comparative investigation through non-linear dynamic analyses

Name of the conference: 15th World Conference on Earthquake Engineering

Type of event: Conference

City of event: Lisbon, Portugal

Date of event: 24/09/2012

Organising entity: Sociedade Portuguesa de Engenharia Sismica

Type of contribution: Scientific paper

María de los Dolores Martínez Rodrigo; Filiatrault A. "Proceedings of the Fifteenth World Conference on Earthquake Engineering". En: 15th World Conference on Earthquake Engineering. 2012.

- 34 Title of the work:** Dynamic performance of existing simply supported high-speed railway bridges: influence of elastomeric bearings and transverse vibrations in the prediction of vertical acceleration levels

Name of the conference: ISMA 2012 - International Conference on Noise and Vibration Engineering

Type of event: Conference

Corresponding author: No

City of event: Leuven, Belgium

Date of event: 17/09/2012

Organising entity: Katholieke Universiteit Leuven **Type of entity:** University

Type of contribution: Scientific paper

Emmanuela Moliner Cabedo; María de los Dolores Martínez Rodrigo; José Lavado Rodríguez; Alejandro Castillo-Linares. "Proceedings of the 2012 International Conference on Modal Analysis, Noise and Vibration Engineering". En: International Conference on Noise and Vibration Engineering. 2012. ISBN 978-9-073-802-89-6

- 35 Title of the work:** Advanced numerical models for the dynamic simulation of High Speed railway bridges of short to medium spans

Name of the conference: EURODYN 2011 - 8th International Conference on Structural Dynamics

Type of event: Conference

Corresponding author: No

City of event: Leuven, Belgium

Date of event: 04/07/2011

Organising entity: Katholieke Universiteit Leuven

Type of contribution: Scientific paper

Emmanuela Moliner Cabedo; María de los Dolores Martínez Rodrigo; José Lavado Rodríguez. "EURODYN 2011: Proceedings of the 8th European Conference on Structural Dynamics". En: 8th International Conference on Structural Dynamics. EURODYN 2011, 2011. ISBN 978-90-760-1931-4

- 36 Title of the work:** Maximum resonance and cancellation phenomena in elastically-supported beams and its application to railway bridges under High-Speed traffic

Name of the conference: ISMA 2010 - International Conference on Noise and Vibration Engineering

Type of event: Conference

Corresponding author: Yes

City of event: Leuven, Belgium



Date of event: 20/09/2010

Organising entity: Katholieke Universiteit Leuven

Type of contribution: Scientific paper

María de los Dolores Martínez Rodríguez; Alejandro Doménech Monforte; Pedro Museros Romero.

"Proceedings of the 2010 International Conference on Modal Analysis, Noise and Vibration Engineering".

En: International Conference on Noise and Vibration Engineering, 2010. ISBN 978-9-073-802-87-2

- 37 Title of the work:** The free vibration response of elastically supported beams traversed by moving loads and its application to railway bridges

Name of the conference: CST 2010 - The 10th International Conference on Computational Structures Technology

Type of event: Conference

Corresponding author: Yes

City of event: Valencia, Spain

Date of event: 14/09/2010

Organising entity: Civil-Comp Press

Type of contribution: Scientific paper

María de los Dolores Martínez Rodríguez; Emmanuela Moliner Cabedo; Jorge Nasarre y de Goicoechea.

"Proceedings of the 10th International Conference on Computational Structures Technology". En: The Free Vibration Response of Elastically Supported Beams traversed by Moving Loads and its Application to Railway Bridges. Civil-Comp Press, 2010. ISBN 978-1-905088-37-9

- 38 Title of the work:** The cancellation phenomenon for simply supported beams and plates subjected to moving loads

Name of the conference: Proceedings of the 12th International Conference on Civil, Structural and Environmental Engineering Computing

Type of event: Conference

Corresponding author: No

City of event: Madeira, Portugal

Date of event: 01/09/2009

Organising entity: Civil-Comp Press

Type of contribution: Scientific paper

Pedro Museros Romero; María de los Dolores Martínez Rodríguez. "Proceedings of the 12th International Conference on Civil, Structural and Environmental Engineering Computing". En: Proceedings of the Twelfth International Conference on Civil, Structural and Environmental Engineering Computing. Civil Comp Ltd, 2009. ISBN 978-1-905088-31-7

- 39 Title of the work:** Vibration reduction for railway bridges travelled by high-speed trains

Name of the conference: Proceedings of the 12th International Conference on Civil, Structural and Environmental Engineering Computing

Type of event: Conference

Corresponding author: Yes

City of event: Madeira, Portugal

Date of event: 01/09/2009

Organising entity: Civil-Comp Press

Type of contribution: Scientific paper

María de los Dolores Martínez Rodríguez; José Lavado Rodríguez; Jorge Nasarre y de Goicoechea; Alejandro Doménech Monforte. "Proceedings of the 12th International Conference on Civil, Structural and Environmental Engineering Computing". En: Proceedings of the Twelfth International Conference on Civil, Structural and Environmental Engineering Computing. Civil-Comp Ltd, 2009. ISBN 978-1-905088-31-7

- 40** **Title of the work:** Practical aspects related to the retrofit of rail way bridges under high-speed traffic
Name of the conference: COMPDYN 2009 - 2nd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering
Type of event: Conference
Corresponding author: Yes
City of event: Rhodes, Greece
Date of event: 22/06/2009
Organising entity: ECCOMAS **Type of entity:** Associations and Groups
Type of contribution: Scientific paper
María de los Dolores Martínez Rodrigo; José Lavado Rodríguez; Jorge Nasarre y de Goicoechea; Alejandro Doménech Monforte. "COMPDYN 2009-Computational Methods in Structural Dynamics and Earthquake Engineering". En: 2nd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering. COMPDYN, 2009. ISBN 978-960-254-682-6
- 41** **Title of the work:** Vibration control of High-Speed Railway Bridges Under Resonant Conditions Using Fluid Viscous Dampers
Name of the conference: Comité National de Mécanique Théorique et Appliquée National
Type of event: Conference
Corresponding author: Yes
City of event: Brussels, Belgium
Date of event: 03/10/2008
Organising entity: Comité National de Mécanique Théorique et Appliquée National
María de los Dolores Martínez Rodrigo; Alejandro Doménech Monforte; Pedro Museros Romero; Guido de Roeck. En: Comité National de Mécanique Théorique et Appliquée National Comité van Theoretische Mechanica. 2008.
- 42** **Title of the work:** Passive energy dissipation systems applied to High Speed railway bridges:a modal approach
Name of the conference: ISMA 2008 - International Conference on Noise and Vibration Engineering
Type of event: Conference
Corresponding author: Yes
City of event: Leuven, Belgium
Date of event: 15/09/2008
Organising entity: Katholieke Universiteit Leuven
Type of contribution: Scientific paper
María de los Dolores Martínez Rodrigo; Alejandro Doménech Monforte; José Lavado Rodríguez; Jorge Nasarre y de Goicoechea. "Proceedings of the 2008 International Conference on Modal Analysis, Noise and Vibration Engineering". En: International Conference on Noise and Vibration Engineering, ISMA2008. P. Sas, B. Bergen. Katholieke Universiteit Leuven, 2008. ISBN 978-9-073802-86-5
- 43** **Title of the work:** Vibration Control of High-Speed railway bridges using viscoelastic dampers modelled by means of fractional derivatives
Name of the conference: ISMA 2008 - International Conference on Noise and Vibration Engineering
Type of event: Conference
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Leuven, Belgium
Date of event: 15/09/2008
Organising entity: Katholieke Universiteit Leuven **Type of entity:** University
Type of contribution: Scientific paper
Emmanuela Moliner Cabedo; Pedro Museros Romero; María de los Dolores Martínez Rodrigo. "Proceedings of the 2008 International Conference on Modal Analysis, Noise and Vibration Engineering". En: ISMA2008-



International Conference on Noise and Vibration Engineering. P. Sas y B. Bergen. Katholieke Universiteit Leuven, 2008. ISBN 978-907-380-286-5

- 44** **Title of the work:** Vibration control of railway bridges under high-speed traffic: 3D analytical optimization and numerical validation
Name of the conference: EURODYN 2008 - 7th European Conference on Structural Dynamics
Type of event: Conference
Corresponding author: Yes
City of event: Southampton, United Kingdom
Date of event: 07/07/2008
Organising entity: Institute of Sound and Vibration Research
Type of entity: R&D Centre
Type of contribution: Scientific paper
María de los Dolores Martínez Rodrigo; José Lavado Rodríguez; Jorge Nasarre y de Goicoechea; Pedro Museros Romero. "EURODYN 2008: 7th European Conference on Structural Dynamics". En: 7th European Conference on Structural Dynamics. 2008. ISBN 978-0-854328-82-6
- 45** **Title of the work:** Vibration Control of High-Speed Railway Bridges using Viscoelastic Dampers
Name of the conference: CSE 2007 - 11th International Conference on Civil, Structural and Environmental Engineering Computing
Type of event: Conference
Corresponding author: No
City of event: St. Julians, Malta
Date of event: 18/09/2007
Organising entity: Civil-Comp Press
Type of contribution: Scientific paper
Emmanuela Moliner Cabedo; María de los Dolores Martínez Rodrigo; José Lavado Rodríguez. "Proceedings of the 11th International Conference on Civil, Structural and Environmental Computing". En: Eleventh International Conference on Civil, Structural and Environmental Engineering Computing. B.H.V. Topping, 2007. ISBN 978-1-905088-16-4
- 46** **Title of the work:** Adaptación de puentes existentes a nuevos requerimientos de tráfico
Name of the conference: Ingeniería para Alta Velocidad. Veinte años de experiencia en España
Type of event: Conference
City of event: Córdoba, Spain
Date of event: 27/06/2007
Organising entity: Fundación Caminos de Hierro para la Investigación y la Ingeniería Ferroviaria
Type of entity: R&D Centre
Type of contribution: Scientific paper
Pedro Museros Romero; María de los Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; José Lavado Rodríguez; Alejandro Castillo-Linares. "Jornadas Técnicas: Ingeniería para alta velocidad. Veinte años de experiencia en España". En: Ingeniería para Alta Velocidad. Veinte años de experiencia en España. 2007.
- 47** **Title of the work:** Retrofit of real High-Speed railway bridges using fluid viscous dampers, technical feasibility assessment through 3D numerical analyses
Name of the conference: COMPDYN 2007- Computational Methods in Structural Dynamics and Earthquake Engineering
Type of event: Conference
Corresponding author: Yes
City of event: Crete, Greece
Date of event: 13/06/2007



Organising entity: ECCOMAS

Type of contribution: Scientific paper

María de los Dolores Martínez Rodrigo; José Lavado Rodríguez; Jorge Nasarre y de Goicoechea. "COMPDYN 2007-Computational Methods in Structural Dynamics and Earthquake Engineering". En: COMPDYN 2007-Computational Methods in Structural Dynamics and Earthquake Engineering. 2007.

- 48** **Title of the work:** Vertical vibration control of multi-track High-Speed railway bridges under resonant conditions retrofitted with Fluid Viscous Dampers
Name of the conference: ISMA 2006 - Internacional Conference on Noise and Vibration Engineering
Type of event: Conference
Corresponding author: Yes
City of event: Leuven, Belgium
Date of event: 18/09/2006
Organising entity: Katholieke Universiteit Leuven
Type of contribution: Scientific paper
María de los Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Pedro Museros Romero. "Proceedings of the 2006 International Conference on Modal Analysis, Noise and Vibration Engineering". En: Internacional Conference on Noise and Vibration Engineering. P.Sas, M. De Munck, 2006. ISBN 90-73802-83-0
- 49** **Title of the work:** Vertical vibration control of multi-track High-Speed railway bridges under resonant conditions retrofitted with Fluid Viscous Dampers
Name of the conference: ISMA 2006 - International Conference on Modal Analysis, Noise and Vibration Engineering
Type of event: Conference
Corresponding author: Yes
City of event: Leuven, Belgium
Date of event: 18/09/2006
Organising entity: Katholieke Universiteit Leuven
Type of contribution: Scientific paper
María de los Dolores Martínez Rodrigo; Emmanuela Moliner Cabedo; Pedro Museros Romero. "Proceedings of the 2006 International Conference on Modal Analysis, Noise and Vibration Engineering". En: Proceedings of the 2006 International Conference on Modal Analysis, Noise and Vibration Engineering. Katholieke Universiteit Leuven, 2006. ISBN 90-73802-83-0
- 50** **Title of the work:** Numerical Investigation of the Performance of Multi-Track High-Speed Railway Bridges under Resonant Conditions Retrofitted with Fluid Viscous Dampers
Name of the conference: CST 2006 - 8th International Conference on Computational Structures Technology
Type of event: Conference
Corresponding author: Yes
City of event: Las Palmas de Gran Canaria, Canary Islands, Spain
Date of event: 12/09/2006
Organising entity: Civil-Comp Press
Type of contribution: Scientific paper
María de los Dolores Martínez Rodrigo; Pedro Museros Romero. "Proceedings of the 8th International Conference on Computational Structures Technology". En: Proceedings of the 8th International Conference on Computational Structures Technology. Civil-Com Press, 2006. ISBN 1-905088-07-8
- 51** **Title of the work:** A numerical Assessment of the Use of Fluid Viscous Dampers to reduce the Resonance Response of High - Speed Railway Bridges
Name of the conference: CSE 2005 - 10th International Conference on Civil, Structural and Environmental Engineering Computing



Type of event: Conference

Corresponding author: Yes

City of event: Roma, Italy

Date of event: 30/08/2005

Organising entity: Civil-Comp Press

Type of contribution: Scientific paper

María de los Dolores Martínez Rodrigo; Pedro Museros Romero. "Proceedings of the 10th International Conference on Civil, Structural and Environmental Engineering Computing". En: Proceedings of the 10th International Conference on Civil, Structural and Environmental Engineering Computing. B. H. V. Topping, 2005. ISBN 1-905088-00-0

- 52 Title of the work:** Atenuación de vibraciones resonantes en vigas sometidas al paso de cargas móviles mediante reacondicionamiento con disipadores fluido-viscosos

Name of the conference: CMN 2005 - Métodos Numéricos en Ingeniería

Type of event: Conference

City of event: Granada, Spain

Date of event: 04/07/2005

Organising entity: Sociedad Española de Métodos Numéricos en Ingeniería

Type of entity: Associations and Groups

Type of contribution: Scientific paper

María de los Dolores Martínez Rodrigo; Pedro Museros Romero. "Congreso de métodos numéricos en ingeniería, 2005". En: Métodos Numéricos en Ingeniería 2005. SEMNI, Sociedad Española de Métodos Numéricos en Ingeniería, 2005. ISBN 84-95999-74-9

- 53 Title of the work:** Supplemental viscous damping determination in high-speed railway bridges for vertical acceleration reduction

Name of the conference: 5th International PhD Symposium in Civil Engineering

Type of event: Conference

City of event: Delft, Holland

Date of event: 16/06/2004

Organising entity: International Federation for Structural Concrete

Type of contribution: Scientific paper

María de los Dolores Martínez Rodrigo; Pedro Museros Romeo; Manuel Luis Romero García. "Proceedings of the 5th International PhD Symposium in Civil Engineering". En: 5th International PhD Symposium in Civil Engineering. A.A.Balkema Publishers, 2004. ISBN 90-5809-676-9

- 54 Title of the work:** Modal Contributions to the Dynamic Response of Simply Supported Bridges for High Speed Vehicles

Name of the conference: CSE 2003 - 9th International Conference on Civil and Structural Engineering Computing

Type of event: Conference

Corresponding author: Yes

City of event: Egmond-aan-Zee, Holland

Date of event: 02/09/2003

Organising entity: Civil-Comp Press

Type of contribution: Scientific paper

María de los Dolores Martínez Rodrigo; Pedro Museros Romero; Manuel Luis Romero García. "Proceedings of the 9th International Conference on Civil and Structural Engineering Computing". En: The 9th International Conference on Civil and Structural Engineering Computing. 2003.



- 55 Title of the work:** A Comparative investigation in linear and non-linear fluid viscous dampers for seismic applications
Name of the conference: CST 2002 - 6th International Conference on Computational Structures Technology
Type of event: Conference
City of event: Prague, Czech Republic
Date of event: 04/06/2002
Organising entity: Civil-Comp Press
Type of contribution: Scientific paper
 María de los Dolores Martínez Rodrigo; Manuel Luis Romero García. "Proceedings of the 6th International Conference on Computational Structures Technology". En: The sixth international Conference on computational structures Technology. Civil-Comp, 2002. ISBN 0-948749-82-2

Works submitted to national or international seminars, workshops and/or courses

- 1 Title of the work:** Bridge dynamics research at University Jaume I of Castellón, Spain
Name of the event: PhD seminars in Structural Engineering and Bridges division
Type of event: Seminar
Corresponding author: Yes **Reasons for participation:** Upon invitation
City of event: Estocolmo, Sweden
Date of event: 2019
End date: 15/02/2019
Organising entity: KTH Royal Institute of Technology - Stockholm **Type of entity:** University
City organizing entity: Estocolmo, Sweden
 María Dolores Martínez Rodrigo.
- 2 Title of the work:** Traffic induced vibrations on railway bridges
Name of the event: Advanced Structure Dynamics, Modelling and Measurements
Type of event: Course
Reasons for participation: Upon invitation
City of event: Estocolmo, Sweden
Date of event: 2019
End date: 15/02/2019
Organising entity: KTH Royal Institute of Technology - Stockholm **Type of entity:** University
City organizing entity: Estocolmo, Sweden
 María Dolores Martínez Rodrigo.
- 3 Title of the work:** Application of passive control techniques to High-Speed railway bridges under resonant conditions: optimization, advanced numerical simulation and practical aspects
Name of the event: Engineering Seminar (seminario impartido por invitación)
Type of event: Seminar
Corresponding author: Yes **Reasons for participation:** Upon invitation
City of event: Buffalo, United States of America
Date of event: 2011
Organising entity: State University of New York at Buffalo **Type of entity:** University
 María Dolores Martínez Rodrigo. "Application of passive control techniques to High-Speed railway bridges under resonant conditions: optimization, advanced numerical simulation and practical aspects".

- 4** **Title of the work:** Application of passive control techniques to High-Speed railway bridges under resonant conditions: optimization, advanced numerical simulation and practical aspects
Name of the event: Engineering Seminar (seminario impartido por invitación)
Type of event: Seminar
Corresponding author: Yes **Reasons for participation:** Upon invitation
City of event: Leuven, Belgium
Date of event: 2008
Organising entity: Katholieke Universiteit Leuven
María Dolores Martínez Rodrigo. "Application of passive control techniques to High-Speed railway bridges under resonant conditions: optimization, advanced numerical simulation and practical aspects".
- 5** **Title of the work:** Numerical assessment of the application of fluid viscous dampers in reducing the resonance response of high-speed railway bridges
Name of the event: Engineering Seminar (seminario impartido por invitación)
Type of event: Seminar
Corresponding author: Yes **Reasons for participation:** Upon invitation
City of event: Leuven, Belgium
Date of event: 2005
Organising entity: Katholieke Universiteit Leuven
María Dolores Martínez Rodrigo. "Numerical assessment of the application of fluid viscous dampers in reducing the resonance response of high-speed railway bridges".

R&D management and participation in scientific committees

Organization of R&D activities

- 1** **Title of the activity:** Miembro del comité científico del congreso DINEST 2021: 2º Congreso de Dinámica Estructural
Type of activity: Participación en la organización de conferencias científicas **Geographical area:** National
Convening entity: Escuela Politécnica de Ingeniería de Gijón
City convening entity: Gijón, Principality of Asturias, Spain
Start date: 09/06/2021
- 2** **Title of the activity:** Miembro del comité científico y organización de sesión en el congreso ICCES 2020
Type of activity: Participación en la organización de conferencias científicas **Geographical area:** Non EU International
Convening entity: ICCES
City convening entity: Londres, United Kingdom
Start date: 08/01/2021
- 3** **Title of the activity:** Organizador de sesión en congreso CSE 2019: The sixteenth International Conference on Civil, Structural & Environmental Engineering Computing
Type of activity: Participación en la organización de conferencias científicas
Convening entity: Civil-Comp Press
Start date: 16/09/2019
- 4** **Title of the activity:** Miembro del comité científico del congreso DINEST 2018: 1ª Conferencia de dinámica estructural
Type of activity: Participación en la organización de conferencias científicas



Convening entity: EASD-Universidad Politécnica de Madrid

Start date: 01/10/2017

- 5** **Title of the activity:** Miembro del comité editorial del congreso CST 2018: The Thirteenth International Conference on Computational Structures Technology
Type of activity: Participación en la organización de conferencias científicas
Convening entity: Civil-Comp Press
Start date: 01/10/2017
- 6** **Title of the activity:** Miembro del comité editorial del congreso RAILWAYS 2018
Type of activity: Participación en la organización de conferencias científicas
Convening entity: Civil-Comp Press
Start date: 01/10/2017
- 7** **Title of the activity:** Miembro del comité editorial del congreso CC 2015: Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing
Type of activity: Participación en la organización de conferencias científicas
Convening entity: Civil-Comp Press
Start date: 01/09/2015
- 8** **Title of the activity:** Miembro del comité editorial del congreso RAILWAYS 2014
Type of activity: Participación en la organización de conferencias científicas
Convening entity: Civil-Comp Press
Start date: 01/04/2014
- 9** **Title of the activity:** Miembro del comité editorial del congreso CSE 2011: 13th International Conference on Civil, Structural and Environmental Engineering Computing
Type of activity: Participación en la organización de conferencias científicas
Convening entity: Civil-Comp Press
Start date: 01/09/2011
- 10** **Title of the activity:** Moderador de sesiones del congreso EUROLYN 2011
Type of activity: Participación en la organización de conferencias científicas
Convening entity: EASD - European Association for Structural Dynamics
Start date: 01/07/2011
- 11** **Title of the activity:** Miembro del comité editorial del congreso CST 2010: 10th International Conference on Computational Structures Technology
Type of activity: Participación en la organización de conferencias científicas
Convening entity: Civil-Comp Press
Start date: 01/09/2010

Evaluation and revision of R&D projects and articles

- 1** **Performed tasks:** Miembro de comisión científico-técnica del Área PIN - subárea Ingeniería Civil y Arquitectura para la evaluación de proyectos PGC-RTI 2020
Entity where activity was carried out: AEI - Agencia Estatal de Investigación
City of entity: Spain
Start date: 22/02/2021

- 2 Performed tasks:** Miembro de comisión científico-técnica de evaluación de ayudas Ramón y Cajal, Juan de la Cierva-Formación y Juan de la Cierva-Incorporación
Entity where activity was carried out: AEI - Agencia Estatal de Investigación
City of entity: Spain
Start date: 01/01/2020
- 3 Performed tasks:** Participación en evaluación de proyectos de investigación de convocatorias públicas competitivas como remoto
Entity where activity was carried out: AEI - Agencia Estatal de Investigación
City of entity: Spain
Start date: 08/03/2017
- 4 Name of the activity:** Revisión de artículos científicos
Performed tasks: Revisor de artículos para las revistas internacionales: ENGINEERING STRUCTURES, JOURNAL OF SOUND AND VIBRATION, COMPUTERS & STRUCTURES, INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, SHOCK AND VIBRATION, SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, STRUCTURAL STABILITY AND DYNAMICS
Start date: 01/01/2007

Other achievements

Stays in public or private R&D centres

- 1 Entity:** KTH Royal Institute of Technology
City of entity: Estocolmo, Sweden
Start-End date: 01/02/2019 - 31/07/2019 **Duration:** 6 months
Goals of the stay: Post-doctoral
Provable tasks: Dinámica de puentes ferroviarios para Alta Velocidad: análisis del comportamiento vibratorio de tableros de vía única y vía doble mediante el desarrollo de modelos numéricos de cálculo y la evaluación experimental de su respuesta en condiciones de servicio. Trabajo realizado bajo la supervisión del profesor Raid Karoumi. Publicaciones derivadas JCR: o <https://doi.org/10.1016/j.engstruct.2020.111103>
- 2 Entity:** State University of New York at Buffalo **Type of entity:** University
Faculty, institute or centre: Civil and environmental engineering department
City of entity: Buffalo, United States of America
Start-End date: 01/09/2011 - 31/01/2012 **Duration:** 5 months
Goals of the stay: Post-doctoral
Provable tasks: Análisis del comportamiento sismorresistente de puentes atirantados. Evaluación de la posible aplicación de técnicas de control pasivo y aislamiento de base a puente real en Canada. Trabajo realizado bajo la supervisión del profesor André Filiatrault. Publicaciones derivadas JCR: <http://dx.doi.org/10.1016/j.engstruct.2015.04.048>
- 3 Entity:** Katholieke Universiteit Leuven **Type of entity:** University
Faculty, institute or centre: Department of Civil Engineering
City of entity: Leuven, Belgium
Start-End date: 01/09/2008 - 31/01/2009 **Duration:** 5 months
Goals of the stay: Doctorate
Provable tasks: Análisis del comportamiento dinámico y posibilidad de reacondicionamiento de puentes de ferrocarril existentes. Estudio y aplicación de técnicas de análisis modal operacional bajo la supervisión del profesor Guido de Roeck.



- 4** **Entity:** Katholieke Universiteit Leuven **Type of entity:** University
Faculty, institute or centre: Department of Civil Engineering
City of entity: Leuven, Belgium
Start-End date: 01/09/2004 - 31/01/2005 **Duration:** 5 months
Goals of the stay: Doctorate
Provable tasks: Programación de código para cálculo dinámico de puentes de ferrocarril mediante modelos de losa ortótropa bajo la supervisión del profesor Guido de Roeck
- 5** **Entity:** University of California San Diego **Type of entity:** University
Faculty, institute or centre: Structural Engineering Department
City of entity: La Jolla, United States of America
Start-End date: 01/07/2002 - 01/09/2002 **Duration:** 2 months
Goals of the stay: Doctorate
Provable tasks: Investigación sobre sistema telescópico de cimentación para mejora del comportamiento sismorresistente de viaductos bajo la supervisión del profesor Enrique Luco. Publicaciones derivadas JCR: <http://dx.doi.org/10.1002/eqe.421>

Obtained grants and scholarships

- 1** **Name of the grant:** Estancias de movilidad en el extranjero "José Castillejo" para jóvenes doctores
Aims: Post-doctoral
Awarding entity: Ministerio de Educación, Cultura y Deporte
Amount of the grant: 19.034 €
Conferral date: 2018 **Duration:** 6 months
End date: 2012
Entity where activity was carried out: KTH Royal Institute of Technology
Faculty, institute or centre: Civil and Architectural Engineering Department
- 2** **Name of the grant:** Estancias de movilidad en el extranjero "José Castillejo" para jóvenes doctores
Aims: Post-doctoral
Awarding entity: Ministerio de Educación, Cultura y Deporte
Amount of the grant: 13.000 €
Conferral date: 2012 **Duration:** 4 months
End date: 2012
Entity where activity was carried out: State University of New York at Buffalo
Faculty, institute or centre: Department of Civil and Environmental Engineering
- 3** **Name of the grant:** Programa de movilidad del personal investigador. Plan 2004 de promoción de la investigación de la Universitat Jaume I
Aims: Pre-doctoral
Awarding entity: Fundació Caixa-Castelló **Type of entity:** Foundation
Amount of the grant: 5.175 €
Conferral date: 2004 **Duration:** 5 months
Entity where activity was carried out: Katholieke Universiteit Leuven
Faculty, institute or centre: Department of Civil Engineering
- 4** **Name of the grant:** Programa de movilidad del personal investigador. Plan 2002 de promoción de la investigación de la Universitat Jaume I
Aims: Pre-doctoral



Awarding entity: Fundació Caixa-Castelló

Type of entity: Foundation

Amount of the grant: 2.900 €

Conferral date: 2002

Duration: 5 months

Entity where activity was carried out: University of California San Diego

Faculty, institute or centre: Department of Structural Engineering

Prizes, mentions and distinctions

- 1** **Description:** Premio a la mejor presentación en el congreso DINEST 2018
Awarding entity: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos. Universidad Politécnica de Madrid
Type of entity: University
City awarding entity: Madrid
Conferral date: 2018
- 2** **Description:** Premio de Ferrocarriles en categoría de Tesis Doctoral IX edición de COMSA Corporación
Awarding entity: COMSA corporación
Type of entity: Business
City awarding entity: Barcelona, Catalonia, Spain
Conferral date: 2010
- 3** **Description:** Premio del Consejo Social de la Universitat Politècnica de València a la mejor Tesis Doctoral del área de Ingeniería Civil e Industrial
Awarding entity: Universitat Politècnica de València
Type of entity: University
City awarding entity: Valencia, Valencian Community, Spain
Conferral date: 2010

Periods of research activity

- 1** **Nº of recognized periods:** 1
Geographical area: National
Certifying entity: CNEAI - Comisión Nacional Evaluadora de la Actividad Investigadora
City certifying entity: Spain
Date of recognition: 2019
- 2** **Nº of recognized periods:** 1
Geographical area: National
Certifying entity: CNEAI - Comisión Nacional Evaluadora de la Actividad Investigadora
City certifying entity: Spain
Date of recognition: 2013
- 3** **Nº of recognized periods:** 1
Geographical area: National
Certifying entity: CNEAI - Comisión Nacional Evaluadora de la Actividad Investigadora
City certifying entity: Spain
Date of recognition: 2007



Obtained accreditations/recognitions

- 1** **Description:** Catedrático de Universidad
Accrediting entity: ANECA - Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 22/12/2021
Type of entity: Agencia de calidad del sistema universitario a nivel nacional
- 2** **Description:** Profesor Titular de Universidad
Accrediting entity: ANECA - Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 21/02/2013
Type of entity: Agencia de calidad del sistema universitario a nivel nacional
- 3** **Description:** Profesor Contratado Doctor
Accrediting entity: Agencia Valenciana de Evaluación y Prospectiva
City accrediting entity: Spain
Date of recognition: 16/06/2010
Type of entity: Agencia de calidad autonómica
- 4** **Description:** Profesor Colaborador
Accrediting entity: Comisión Valenciana de Acreditación y Evaluación de la Calidad
City accrediting entity: Spain
Date of recognition: 17/02/2005
Type of entity: Agencia de calidad autonómico