



## **Maria Inmaculada Martinez Garrido**

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**Maria Inmaculada Martinez Garrido**

Surname(s): **Martinez Garrido**  
 Name: **Maria Inmaculada**  
 Spanish ID number: **02265395X**  
 Date of birth: **14/06/1984**  
 Sex: **Woman**  
 Nationality: **Spain**  
 Country of birth: **Spain**  
 Autonomous Community /Region of birth: **Otros**  
 City of birth: **Otra**  
 Contact city: **Otra**  
 Contact country: **Spain**  
 Autonomous Community /Contact region: **Otros**  
 Land line phone: **620414031**  
 Email address: **inmaculada.martinez.garrido@upm.es**  
 Mobile phone: **620414031**

**Positions held before current job**

	Name of the entity	Category / position or responsibility	Start date
1	CEI Moncloa	Investigador CEI Moncloa	01/07/2013
2	CEI Moncloa	Predoc PICATA CEI Moncloa	01/07/2011
3	Consejo Superior de Investigaciones Científicas	Responsable TIC del Instituto de Geociencias (CSIC-UCM)	01/07/2009
4	Escuela Técnica Superior de Ingeniería y Sistemas de Telecomunicación	Desarrolladora Sistema de Garantía Interno	01/12/2007
5	BRUEL AND KJAER IBERICA, S.A.	Ingeniero Técnico Telecomunicación (SI)	27/11/2006
6	DETECSYS	Programador C/C++, Visual Basic, HTML	02/10/2006

**1 Name of the entity:** CEI Moncloa**City of job:** Madrid, Otros, Spain**Category / position or responsibility:** Investigador CEI Moncloa**Phone:** 620414031**Start date:** 01/07/2013**Type of dedication:** Full time**Professional activity:** Contrato de investigación dentro del Programa Internacional de Captación de Talento del Campus de Excelencia Internacional CEI Moncloa (UPM-UCM, CSIC)**Type of body:** University Centres and Structures and Associated Bodies**Teaching Management:** Yes**Email address:** inmaculada.martinez.garrido@gmail.com**Duration:** 2 years**2 Name of the entity:** CEI Moncloa**City of job:** Madrid, Otros, Spain**Type of body:** University Centres and Structures and Associated Bodies**Teaching Management:** No



**Category / position or responsibility:** Predoc  
PICATA CEI Moncloa

**Phone:** 620414031

**Email address:** inmaculada.martinez.garrido@gmail.com

**Start date:** 01/07/2011

**Duration:** 2 years

**Type of dedication:** Full time

**Professional activity:** Investigador predoctoral dentro del Programa Internacional de Captación de Talento del Campus de Excelencia Internacional CEI Moncloa (UPM-UCM,CSIC)

**3 Name of the entity:** Consejo Superior de Investigaciones Científicas

**Type of body:** Organismo, Otros

**Department, Service,...:** Instituto de Geociencias

**City of job:** Madrid, Community of Madrid, Spain

**Category / position or responsibility:**  
Responsable TIC del Instituto de Geociencias (CSIC-UCM)

**Teaching Management:** No

**Phone:** 913945235

**Fax:** 913944798

**Email address:** mi.martinez.garrido@csic.es

**Start date:** 01/07/2009

**Duration:** 2 years

**Type of dedication:** Full time

**Professional activity:** Desarrollo de aplicaciones PHP-MySQL, soporte informático al usuario, desarrollo web, gestión de incidencias, gestión de red, cursos docentes para usuarios de software científico o de administración y servicios, soporte en el desarrollo software/hardware para equipos de investigación, diseño de herramientas con bases de datos y entornos web para la gestión de memorias de investigación, desarrollo de aplicaciones en Matlab.

**4 Name of the entity:** Escuela Técnica Superior de Ingeniería y Sistemas de Telecomunicación

**Type of body:** University

**City of job:** Madrid, Otros, Spain

**Category / position or responsibility:**  
Desarrolladora Sistema de Garantía Interno

**Teaching Management:** No

**Phone:** 913367775

**Start date:** 01/12/2007

**Duration:** 1 year - 8 months

**Type of dedication:** Full time

**Professional activity:** Desarrollo e implantación a través de la Subdirección de Calidad y Alumnos del Sistema de Garantía Interno de Calidad de la ETSIST bajo el programa AUDIT de la Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)

**5 Name of the entity:** BRUEL AND KJAER IBERICA, S.A.

**Type of body:** University

**City of job:** Madrid, Otros, Spain

**Category / position or responsibility:** Ingeniero Técnico Telecomunicación (SI)

**Teaching Management:** No

**Start date:** 27/11/2006

**Duration:** 3 months

**Type of dedication:** Full time

**Professional activity:** Elaboración de los mapas de ruido de Madrid y control de la red de monitorización acústica de la capital

**6 Name of the entity:** DETECSYS

**Type of body:** Business

**City of job:** Madrid, Otros, Spain

**Category / position or responsibility:**  
Programador C/C++, Visual Basic, HTML

**Teaching Management:** No

**Start date:** 02/10/2006

**Duration:** 2 months



CURRÍCULUM VÍTAE NORMALIZADO

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| **Type of dedication:** Part time



## Training received

### University education

#### Doctorates

**Doctorate:** DOCTORADO EN INGENIERÍA DE SISTEMAS Y SERVICIOS PARA LA SOCIEDAD DE LA INFORMACIÓN

**University issuing the title:** Universidad Politécnica de Madrid **Type of body:** University

**City of qualification:** Madrid, Community of Madrid, Spain

**Date of qualification:** 15/06/2015

**European Doctorate date:** 15/06/2015

**Thesis title:** APORTACIÓN DE LA MONITORIZACIÓN MEDIANTE REDES DE SENSORES Y TÉCNICAS NO INVASIVAS PARA LA CONSERVACIÓN PREVENTIVA DEL PATRIMONIO

**Director of thesis:** RAFAEL FORT GONZÁLEZ

**Co-director of thesis:** MARIANO RUÍZ GONZÁLEZ

**Mark:** SOBRESALIENTE CUM LAUDE MENCIÓN INTERNACIONAL

#### Other postgraduate university training

**1 Type of Training:** Master

**Postgraduate qualification:** Ingeniería de Sistemas y Servicios Accesibles para la Sociedad de la Información

**City:** Madrid, Community of Madrid, Spain

**University:** Universidad Politécnica Madrid

**Type of body:** University

**Date of qualification:** 06/07/2009

**Mark:** 8.26

**2 Postgraduate qualification:** Ingeniera Técnica de Telecomunicación

**City:** Madrid, Community of Madrid, Spain

**University:** Universidad Politécnica de Madrid

**Type of body:** University

**Date of qualification:** 19/07/2007

**Mark:** 7.46

### Specialist, ongoing, technical, professional training (other than formal academic and healthcare training)

**1 Type of Training:** Otros

**Title of the specific:** Semana de los materiales

**City:** Madrid, Otros, Spain

**Entity issuing the qualification:** CEI Moncloa

**Type of body:** University Centres and Structures and Associated Bodies

**Date of end of training:** 30/04/2013

**Duration in Hours:** 24 hours



- 2** **Type of Training:** Course  
**Title of the specific:** El seguimiento y análisis de condiciones ambientales, ¿cómo se hace y para qué sirve?  
**City:** Madrid, Otros, Spain  
**Entity issuing the qualification:** Instituto de Patrimonio Cultural de España **Type of body:** Public Research Body  
**Date of end of training:** 12/04/2013 **Duration in Hours:** 18 hours
- 3** **Type of Training:** Course  
**Title of the specific:** Hybrid Programming on Massively Parallel Architectures  
**City:** Bologna, Emilia-Romagna, Italy  
**Entity issuing the qualification:** CINECA **Type of body:** University  
**Training manager:** PRACE Winter School  
**Date of end of training:** 10/02/2012 **Duration in Hours:** 40 hours
- 4** **Type of Training:** Course  
**Title of the specific:** SENSORES Y ACTUADORES  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas **Type of body:** Organismo, Otros  
**Date of end of training:** 18/11/2011 **Duration in Hours:** 30 hours
- 5** **Type of Training:** Otros  
**Title of the specific:** III Foro de Movilidad y II Foro de Identidad de RedIRIS  
**City:** Cuenca, Castile-La Mancha, Spain  
**Entity issuing the qualification:** RedIRIS **Type of body:** Organismo, Otros  
**Date of end of training:** 06/10/2011 **Duration in Hours:** 16 hours
- 6** **Type of Training:** Course  
**Title of the specific:** Transferencia de tecnología e innovación tecnológica  
**City:** Segovia, Castile and León, Spain  
**Entity issuing the qualification:** Universidad Politécnica de Madrid **Type of body:** University  
**Date of end of training:** 14/07/2011 **Duration in Hours:** 12 hours
- 7** **Type of Training:** Course  
**Title of the specific:** Conceptos básicos sobre innovación tecnológica: fases, agentes e indicadores  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad Politécnica de Madrid **Type of body:** University  
**Date of end of training:** 14/07/2011 **Duration in Hours:** 16 hours
- 8** **Type of Training:** Course  
**Title of the specific:** Introducción a autómatas programables con programación por medio de bloques lógicos  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas **Type of body:** Organismo, Otros  
**Date of end of training:** 09/06/2011 **Duration in Hours:** 20 hours
- 9** **Type of Training:** Course  
**Title of the specific:** La conservación de los geomateriales utilizados en el patrimonio  
**City:** Madrid, Community of Madrid, Spain



**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas

**Date of end of training:** 27/05/2011

**Type of body:** Organismo, Otros

**Duration in Hours:** 25 hours

**10 Type of Training:** Course

**Title of the specific:** Over the air (OTA) programming

**City:** Zaragoza, Aragon, Spain

**Entity issuing the qualification:** Libelium

**Date of end of training:** 26/05/2011

**Type of body:** Business

**Duration in Hours:** 8 hours

**11 Type of Training:** Course

**Title of the specific:** Waspnote

**City:** Zaragoza, Aragon, Spain

**Entity issuing the qualification:** Libelium

**Date of end of training:** 25/05/2011

**Type of body:** Business

**Duration in Hours:** 16 hours

**12 Type of Training:** Course

**Title of the specific:** EL ABC DEL ADMINISTRADOR DE SISTEMAS LINUX

**City:** Madrid, Community of Madrid, Spain

**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas

**Date of end of training:** 01/04/2011

**Type of body:** Organismo, Otros

**Duration in Hours:** 25 hours

**13 Type of Training:** Otros

**Title of the specific:** Foro de Movilidad RedIRIS

**City:** Madrid, Community of Madrid, Spain

**Entity issuing the qualification:** RedIRIS

**Date of end of training:** 21/11/2010

**Type of body:** Organismo, Otros

**14 Type of Training:** Otros

**Title of the specific:** Jornadas Técnicas de RedIRIS 2010

**City:** Cordoba, Andalusia, Spain

**Entity issuing the qualification:** RedIRIS

**Date of end of training:** 19/11/2010

**Type of body:** Organismo, Otros

**Duration in Hours:** 18 hours

**15 Type of Training:** Course

**Title of the specific:** Configuración de Seguridad en Servidores Linux

**City:** Madrid, Community of Madrid, Spain

**Entity issuing the qualification:** Instituto Nacional de Administracion Publica

**Date of end of training:** 12/11/2010

**Type of body:** State agency

**Duration in Hours:** 30 hours

**16 Type of Training:** Course

**Title of the specific:** Interconexión de Redes IP y Seguridad

**City:** Madrid, Community of Madrid, Spain

**Entity issuing the qualification:** Instituto Nacional de Administracion Publica

**Date of end of training:** 12/11/2010

**Type of body:** State agency

**Duration in Hours:** 30 hours



- 17** **Type of Training:** Course  
**Title of the specific:** ACCESIBILIDAD Y USABILIDAD WEB  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas  
**Date of end of training:** 04/11/2010  
**Type of body:** Organismo, Otros  
**Duration in Hours:** 8 hours
- 18** **Type of Training:** Course  
**Title of the specific:** Diseño Gráfico Web  
**City:** Madrid, Otros, Spain  
**Entity issuing the qualification:** Instituto Nacional de Administracion Publica  
**Date of end of training:** 29/10/2010  
**Type of body:** State agency  
**Duration in Hours:** 30 hours
- 19** **Type of Training:** Course  
**Title of the specific:** Accesibilidad Diseño Páginas Web  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Instituto Nacional de Administracion Publica  
**Date of end of training:** 06/10/2010  
**Type of body:** State agency  
**Duration in Hours:** 20 hours
- 20** **Type of Training:** Course  
**Title of the specific:** PROGRAMACION WEB EN JAVA (JAVA SERVER PAGES)  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas  
**Date of end of training:** 11/06/2010  
**Type of body:** Organismo, Otros  
**Duration in Hours:** 20 hours
- 21** **Type of Training:** Course  
**Title of the specific:** Switching Básico Sobre Equipamiento de CISCO  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas  
**Date of end of training:** 20/05/2010  
**Type of body:** Organismo, Otros  
**Duration in Hours:** 16 hours
- 22** **Type of Training:** Course  
**Title of the specific:** Filemaker Pro en entornos de red  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas  
**Date of end of training:** 15/04/2010  
**Type of body:** Organismo, Otros  
**Duration in Hours:** 16 hours
- 23** **Type of Training:** Course  
**Title of the specific:** Linux Científico  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Consejo Superior de Investigaciones Científicas  
**Date of end of training:** 26/03/2010  
**Type of body:** Organismo, Otros  
**Duration in Hours:** 25 hours





- 24** **Type of Training:** Course  
**Title of the specific:** Learning ArcGIS Desktop  
**City:** Madrid, Otros, Spain  
**Entity issuing the qualification:** ESRI ESPAÑA  
GEOSISTEMAS S.A  
**Date of end of training:** 22/12/2009  
**Type of body:** Body, others  
**Duration in Hours:** 24 hours
- 25** **Type of Training:** Course  
**Title of the specific:** Linux  
**City:** Otros, Spain  
**Entity issuing the qualification:** Ayuntamiento de Pinto  
**Date of end of training:** 03/12/2009  
**Type of body:** University  
**Duration in Hours:** 16 hours
- 26** **Type of Training:** Otros  
**Title of the specific:** Tecnologías para el Desarrollo Humano: Experiencias de Intervención Tecnológica  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad  
Politécnica de Madrid  
**Date of end of training:** 25/11/2009  
**Type of body:** University
- 27** **Type of Training:** Otros  
**Title of the specific:** MIMO para aplicaciones estáticas con terminales fijos, EUTRAN- LTE  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad  
Politécnica de Madrid  
**Date of end of training:** 26/06/2009  
**Type of body:** University
- 28** **Type of Training:** Otros  
**Title of the specific:** Seminario Seguridad y redes sociales  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Cátedra UPM  
Applus+ de Seguridad y Desarrollo de la Sociedad de la  
Información.  
**Date of end of training:** 06/05/2009  
**Type of body:** Body, others  
**Duration in Hours:** 5 hours
- 29** **Type of Training:** Course  
**Title of the specific:** La Planificación Estratégica en la Universidad  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad  
Politécnica de Madrid  
**Date of end of training:** 05/03/2009  
**Type of body:** University  
**Duration in Hours:** 20 hours
- 30** **Type of Training:** Course  
**Title of the specific:** La dirección por objetivos  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad  
Politécnica de Madrid  
**Date of end of training:** 18/02/2009  
**Type of body:** University  
**Duration in Hours:** 20 hours



- 31 Type of Training:** Course  
**Title of the specific:** Herramientas de Gestión y Mejora de la Calidad  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad Politécnica de Madrid  
**Date of end of training:** 03/02/2009  
**Type of body:** University  
**Duration in Hours:** 20 hours
- 32 Type of Training:** Course  
**Title of the specific:** La Gestión por Procesos en los Centros de la UPM  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad Politécnica de Madrid  
**Date of end of training:** 14/01/2009  
**Type of body:** University  
**Duration in Hours:** 20 hours
- 33 Type of Training:** Otros  
**Title of the specific:** Coding and Design of RLC-Band pass filters  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad Politécnica de Madrid  
**Date of end of training:** 01/10/2008  
**Type of body:** University
- 34 Type of Training:** Course  
**Title of the specific:** Programación Páginas Web: XML  
**City:** Madrid, Otros, Spain  
**Entity issuing the qualification:** Comunidad de Madrid  
**Date of end of training:** 24/07/2008  
**Type of body:** Public Research Body  
**Duration in Hours:** 250 hours
- 35 Type of Training:** Otros  
**Title of the specific:** Encuentro de Primavera sobre La Sociedad de la Información: Seguridad, Libertad, Democracia  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** UNIVERSIDAD POLTÉCNICA DE MADRID  
**Date of end of training:** 21/05/2008  
**Type of body:** University  
**Duration in Hours:** 10 hours
- 36 Type of Training:** Course  
**Title of the specific:** Proyectos ICT  
**City:** Madrid, Community of Madrid, Spain  
**Entity issuing the qualification:** Universidad Politécnica de Madrid  
**Date of end of training:** 01/12/2006  
**Type of body:** University  
**Duration in Hours:** 30 hours

## Language skills

Language	Speech	Reading	Writing
French	Sufficient	Sufficient	Sufficient
English	Good	Good	Good



## Teaching experience

### Teaching work

- 1** **Type of teaching:** Official teaching  
**Name of subject/ name of course:** Electrónica 1  
**Type of programme:** Others **Type of teaching:** Laboratory work  
**Type of subject:** Obligatory  
**Title:** Grado en Ingeniería (4 titulaciones)  
**Hours/credits:** Hours  
**Number of hours/credits:** 48  
**Body where project took place:** Escuela Técnica Superior de Ingeniería y Sistemas de Telecomunicación **Type of body:** University  
**Department:** Ingeniería Telemática y Electrónica
- 2** **Type of teaching:** Official teaching  
**Name of subject/ name of course:** Técnicas de Búsqueda y Sistemas de Información  
**Type of programme:** Others **Type of teaching:** Laboratory work  
**Type of subject:** Obligatory  
**Title:** Grado en Ingeniería (4 titulaciones)  
**Hours/credits:** Hours  
**Number of hours/credits:** 12  
**Body where project took place:** Escuela Técnica Superior de Ingeniería y Sistemas de Telecomunicación **Type of body:** University  
**Department:** Ingeniería Telemática y Electrónica
- 3** **Type of teaching:** Official teaching  
**Name of subject/ name of course:** Técnicas de Búsqueda y Sistemas de Información  
**Type of programme:** Others **Type of teaching:** Laboratory work  
**Type of subject:** Obligatory  
**Title:** Grado en Ingeniería (4 titulaciones)  
**Hours/credits:** Hours  
**Number of hours/credits:** 19  
**Body where project took place:** Escuela Técnica Superior de Ingeniería y Sistemas de Telecomunicación **Type of body:** University  
**Department:** Ingeniería Telemática y Electrónica
- 4** **Type of teaching:** Official teaching  
**Name of subject/ name of course:** Electrónica 1  
**Type of programme:** Others **Type of teaching:** Laboratory work  
**Type of subject:** Obligatory  
**Title:** Grado en Ingeniería (4 titulaciones)  
**Hours/credits:** Hours  
**Number of hours/credits:** 41  
**Body where project took place:** Escuela Técnica Superior de Ingeniería y Sistemas de Telecomunicación **Type of body:** University  
**Department:** Ingeniería Telemática y Electrónica



## Other activities / credits not included in the above list

- 1** **Description of the activity:** Cuso de iniciación al software Matlab (24 horas)  
**City:** Spain  
**Organising body:** Consejo Superior de Investigaciones Científicas  
**Activity end date:** 30/04/2015
- 2** **Description of the activity:** Cuso de iniciación al software Matlab (20 horas)  
**City:** Spain  
**Organising body:** Consejo Superior de Investigaciones Científicas  
**Activity end date:** 27/03/2014
- 3** **Description of the activity:** Clase sobre técnicas de monitorización para la conservación preventiva de elementos patrimoniales  
**City:** Spain  
**Organising body:** Consejo Superior de Investigaciones Científicas  
**Activity end date:** 04/06/2013
- 4** **Description of the activity:** Cursos técnicas de monitorización para la conservación preventiva del patrimonio construido  
**City:** Spain  
**Organising body:** Consejo Superior de Investigaciones Científicas  
**Activity end date:** 12/04/2013
- 5** **Description of the activity:** Cuso de iniciación al software Matlab (20 horas)  
**City:** Spain  
**Organising body:** Consejo Superior de Investigaciones Científicas  
**Activity end date:** 14/03/2013
- 6** **Description of the activity:** Cuso de iniciación al software Matlab (25 horas)  
**City:** Spain  
**Organising body:** Consejo Superior de Investigaciones Científicas  
**Activity end date:** 13/03/2012
- 7** **Description of the activity:** CURSO DE INICIACIÓN AL SOFTWARE MATLAB (25 horas)  
**City:** Spain  
**Organising body:** Consejo Superior de Investigaciones Científicas  
**Activity end date:** 03/06/2011
- 8** **Description of the activity:** II Seminario " La Ingeniería ante las Ciencias Sociales y las Humanidades"  
**City:** Spain  
**Organising body:** Universidad Politécnica de Madrid  
**Activity end date:** 05/03/2009



## Experience in Science and Technology

### Scientific or technological activity

#### Participation in R&D&I projects funded in competitive tenders by public or private bodies

- 1** **Name of the project:** Deterioro de los materiales pétreos en el interior de edificios históricos por efecto de la variación inducida de sus microclimas  
**City:** Spain  
**Number of participating researchers:** 1  
**Funding body or bodies:** MICINN  
**Code according to the funding body:** Ref. CGL2010-19554 y CGL2011-27902  
**Start date:** 01/01/2011  
**Total amount:** 107.590
- 2** **Name of the project:** GEOMATERIALES y GEOMATERIALES 2  
**City:** Spain  
**Number of participating researchers:** 1  
**Funding body or bodies:** Comunidad de Madrid  
**Code according to the funding body:** S2009/MAT-1629 y S2013/MIT-2914  
**Start date:** 01/01/2010  
**Total amount:** 179.600
- 3** **Name of the project:** Guías interactivas creadas con Google Earth para la preparación y seguimiento de trabajo de campo en ciencias de la tierra  
**City:** Spain  
**Number of participating researchers:** 1  
**Funding body or bodies:** Universidad Complutense de Madrid  
**Code according to the funding body:** PIMCD-91-2010  
**Total amount:** 2.000



## Scientific Activities and General Techniques

### Scientific production

#### Publications, Scientific and Technical Documents and any other publication

- 1** Maria Inmaculada Martinez Garrido; Rafael Fort González. Experimental assessment of a wireless communications platform for the built and natural heritage (Under Review). Measurement. 09/2015. ISSN 0263-2241  
**Type of production:** Article  
**Ranking among the total:** 1  
**Index measuring impact:** 1,526
- 2** Maria Inmaculada Martinez Garrido; Rafael Fort González; María José Varas Muriel. Sensor-based monitoring of heating system effectiveness and efficiency in Spanish churches (Under Review). Indoor And Built Environment. 09/2015. ISSN 1420-326X  
**Type of production:** Article  
**Ranking among the total:** 1  
**Index measuring impact:** 1,716
- 3** Maria Inmaculada Martinez Garrido; Rafael Fort González. Wireless communication platforms for built and natural heritage monitoring. Sensing the Past. Springer, 2015.  
**Type of production:** Chapters of books  
**Ranking among the total:** 1
- 4** Maria Inmaculada Martinez Garrido; Rafael Fort González. Wireless monitoring to detect decay factors in natural heritage scenarios in Spain: a case study at Lanzarote. Sensing the Past. Geoscience and Sensing Technologies for cultural heritage. Springer, 2015.  
**Type of production:** Chapters of books  
**Ranking among the total:** 1
- 5** Maria Inmaculada Martinez Garrido; Rafael Fort González. Wireless sensor networks for archeological sites monitoring. Youth in Conservation of Cultural Heritage 2014. 2015.  
**Type of production:** Chapters of books  
**Ranking among the total:** 1
- 6** Maria Inmaculada Martinez Garrido; S Aparicio; R. Fort; JJ Anaya; MAG Izquierdo. Effect of Solar Radiation and Humidity on the inner core of walls in historic buildings. Construction And Building Materials. pp. 383 - 394. 09/2014. ISSN 0950-0618  
**Type of production:** Article  
**Ranking among the total:** 1  
**Index measuring impact:** 2,265
- 7** M.J. Varas-Muriel; R. Fort; Maria Inmaculada Martinez Garrido; A. Zornoza-Indart; P. López-Arce. Fluctuations in the indoor environment in Spanish rural churches and their effects on heritage conservation: Hygro-thermal and CO2 conditions monitoring. Building And Environment. pp. 97 - 109. 09/2014. ISSN 0360-1323  
**Type of production:** Article  
**Ranking among the total:** 3



**Index measuring impact:** 2,7

- 8** M.J. Varas-Muriel; Maria Inmaculada Martinez Garrido; R. Fort. Monitoring the thermal-hygrometric conditions induced by traditional heating systems in a historic Spanish church (12th-16th C). *Energy And Buildings*. pp. 119 - 132. 09/2014. ISSN 0378-7788  
**Type of production:** Article  
**Ranking among the total:** 2  
**Index measuring impact:** 2,465
- 9** Maria Inmaculada Martinez Garrido; Miguel Gómez Heras; Rafael Fort González; M<sup>a</sup> José Varas Muriel. Energy Efficiency and thermal analysis for centralized air heating systems: a case study. *Actas del Congreso Internacional de Eficiencia Energética y Edificación Histórica / Proceedings of the International Conference on Energy Efficiency and Historic Buildings*. 238-249, Fundación de Casas Históricas y Singulares y Fundación Ars Civilis, 2014. ISBN 978-84-617-3440-5  
**Type of production:** Chapters of books  
**Ranking among the total:** 1
- 10** M Sileo; FT Biscione; N Gizzi; N Masini; Maria Inmaculada Martinez Garrido. Low cost strategies for environmental monitoring of cultural heritage: the crypt of St. Francesco d'Assisi, Irsina (Southern Italy). *Science, Technology and Cultural Heritage*. 27-34, CRC Press, 2014. ISBN 978-1-138-02744-2  
**Type of production:** Chapters of books  
**Ranking among the total:** 5
- 11** Maria Inmaculada Martinez Garrido; Miguel Gomez Heras; Rafael Fort González; M<sup>a</sup> José Varas Muriel. Monitoring moisture distribution on stone and masonry wall. *Science, Technology and Cultural Heritage*. 35-40, CRC Press, 2014. ISBN 978-1-138-02744-2  
**Type of production:** Chapters of books  
**Ranking among the total:** 1
- 12** DM Freire Lista; Maria Inmaculada Martinez Garrido; R Fort. Monitoring techniques for microclimatic analysis in cultural and natural heritage for decay evaluation. *11th International Conference on Non-Destructive Investigations and Microanalysis for the Diagnostics and Conservation of Cultural and Environmental Heritage*. 114-123, 2014. ISBN 978-84-697-0522-3  
**Type of production:** Chapters of books  
**Ranking among the total:** 2
- 13** S Aparicio; J Ranz; J Olivera; Maria Inmaculada Martinez Garrido; MG Hernandez. Performance of a tree routing topology for wireless sensor networks using different platforms. *11th International Conference on Non-Destructive Investigations and Microanalysis for the Diagnostics and Conservation of Cultural and Environmental Heritage*. 107-116, 2014. ISBN 978-84-697-0522-3  
**Type of production:** Chapters of books  
**Ranking among the total:** 4
- 14** Maria Inmaculada Martinez Garrido; S Aparicio; R Fort; JJ Anaya; MAG Izquierdo. Redes de sensores inalámbricas para una conservación preventiva del patrimonio arquitectónico. *Congreso Latinoamericano REHABEND 2014*. 2071-2077, 2014. ISBN 978-84-616-8863-0  
**Type of production:** Chapters of books  
**Ranking among the total:** 1
- 15** Maria Inmaculada Martinez Garrido; Rafael Fort González. Sensing technologies for monitoring and conservation of Cultural Heritage: wireless detection of decay factors. *Science, Technology and Cultural Heritage*. 495-501, CRC Press, 2014. ISBN 978-1-138-02744-2  
**Type of production:** Chapters of books

**Ranking among the total: 1**

- 16** S Aparicio; Maria Inmaculada Martinez Garrido; JV Fuente; J Ranz; R Fort; MAG Izquierdo; JJ Anaya. Wireless sensor networks for concrete and architectural heritage applications. Advances In Sensor Networks Research. 229-256, Nova Publications, 2014. ISBN 978-1-62948-679-6

**Type of production:** Chapters of books

**Ranking among the total: 2**

- 17** Maria Inmaculada Martinez Garrido; R Fort; MAG Izquierdo. Decay assessment, diagnosis and monitoring through wireless sensor networks and non destructive techniques for architectural heritage conservation. 1st Workshop PICATA 12-14 February 2013, Campus of International Excellence Moncloa Campus. 89-90, 2013. ISBN 978-84-695-7643-4

**Type of production:** Chapters of books

**Ranking among the total: 1**

- 18** Maria Inmaculada Martinez Garrido; S Aparicio; R Fort; JJ Anaya; MAG Izquierdo. Decay Assessment through wireless sensor networks implementation for architectural heritage conservation. Science and Technology for the Conservation of Cultural Heritage. 71-74, CRC Press, 2013. ISBN 978-1-13800-009-4

**Type of production:** Chapters of books

**Ranking among the total: 1**

- 19** Maria Inmaculada Martinez Garrido; Rafael Fort González; M<sup>a</sup> José Varas Muriel. Monitorización para la conservación preventiva del patrimonio construido. Reunión Científica del Programa Geomateriales, Durabilidad y conservación de geomateriales del patrimonio construido. 8-8, 2013. ISBN 978-84-616-9222-4

**Type of production:** Chapters of books

**Ranking among the total: 1**

- 20** Frank Lehmann; Maria Inmaculada Martinez Garrido; Markus Krüger. On the advance of impedance measurements for monitoring moisture in sandstone. Cultural Heritage Preservation, 3rd European Work-shop on Cultural Heritage Preservation. 259-264, Felix Verlag, 2013. ISBN 978-88-88307-26-8

**Type of production:** Chapters of books

**Ranking among the total: 2**

- 21** R Fort; MA García del Cura; M Álvarez de Buergo; MJ Varas; M Gómez-Heras; P López Arce; L Gómez-Villalba; EM Pérez-Monserrat; C Vázquez-Calvo; DM Freire; A Zornoza-Indart; Maria Inmaculada Martinez Garrido. Deterioro y conservación de los materiales geológicos del Patrimonio. 1<sup>a</sup> Reunión Científica del Instituto de Geociencias: Geología, Geodesía y Geofísica (CSIC-UCM). 76-86, 2011. ISBN 978-84-615-7005-8

**Type of production:** Chapters of books

**Ranking among the total: 12**

- 22** R Fort; M Álvarez de Buergo; MJ Varas Muriel; M Gómez-Heras; C Vázquez-Calvo; P López-Arce; LS Gómez-Villalba; E Pérez-Monserrat; DM Freire-Lista; A Zornoza-Indart; Maria Inmaculada Martinez Garrido. Petrología aplicada a la Conservación del Patrimonio. 1<sup>a</sup> Reunión de la Red de Ciencia y Tecnología para la Conservación del Patrimonio, Ciencia y Tecnología para la Conservación Cultural, TechnoHeritage. 91-94, 2011. ISBN 978-84-694-6137-2

**Type of production:** Chapters of books

**Ranking among the total: 11**

- 23** Maria Inmaculada Martinez Garrido; S Aparicio; MAG Izquierdo; R Fort; JJ Anaya. Propuesta de monitorización del deterioro en patrimonio construido mediante redes de sensores. 12<sup>o</sup> Congreso Nacional de Ensayos No Destructivos Valencia, 15, 16 y 17 de Junio 2011. 649-658, 2011.

**Type of production:** Chapters of books

**Ranking among the total: 1**





## Work presented in conferences at the national or international level

- 1** **Title:** On the advance of non-invasive techniques implementation for monitoring moisture distribution in cultural heritage: a case study  
**Name of the conference:** EGU General Assembly 2015  
**Your role:** Speaker  
**Date of the event:** 12/04/2015  
**City:** Viena,  
Maria Inmaculada Martinez Garrido; Miguel Gómez-Heras; Rafael Fort González; Javier Valles Iriso; María José Varas Muriel. "Geophysical Research Abstracts, Vol.17,EGU2015-10766, 2015,EGU General Assembly 2015".pp. 10766 - 10766.
- 2** **Title:** Monitoring moisture distribution on stone and masonry walls  
**Name of the conference:** TECHNOHERITAGE 2014  
**Your role:** Speaker  
**Date of the event:** 24/06/2014  
**City:** Sevilla,  
Maria Inmaculada Martinez Garrido; Miguel Gómez-Heras; Rafael Fort González; M<sup>a</sup> José Varas-Muriel. "II Congreso Internacional "Science and Technology for the Conservation of Cultural Heritage" Sevilla, 24-27 junio 2014".pp. 35 - 40. ISBN 978-1-138-02744-2
- 3** **Title:** Sensing technologies for monitoring and conservation of Cultural Heritage: wireless detection of decay factors  
**Name of the conference:** TECHNOHERITAGE 2014  
**Your role:** Speaker  
**Date of the event:** 24/06/2014  
**City:** Sevilla,  
Maria Inmaculada Martinez Garrido; Rafael Fort González. "II Congreso Internacional "Science and Technology for the Conservation of Cultural Heritage" Sevilla, 24-27 junio 2014".pp. 495 - 500. ISBN 978-1-138-02744-2
- 4** **Title:** Wireless sensor networks for archeological sites monitoring  
**Name of the conference:** Youth in Conservation of Cultural Heritage 2014  
**Your role:** Speaker  
**Date of the event:** 28/05/2014  
**City:** Agsu (Azerbaiyán),  
Maria Inmaculada Martinez Garrido; Rafael Fort González. "Youth in Conservation of Cultural Heritage 2014".
- 5** **Title:** Wireless sensor networks evaluation for heritage monitoring; in the development of decay detecting techniques for a preventive conservation  
**Name of the conference:** EGU 2014  
**Your role:** Speaker  
**Date of the event:** 27/04/2014  
**City:** Viena,  
Maria Inmaculada Martinez Garrido; Rafael Fort González. "Geophysical Research Abstracts Vol. 16, EGU2014".pp. 9364 - 9364.



- 6** **Title:** Redes de sensores inalámbricas para una conservación preventiva del patrimonio arquitectónico  
**Name of the conference:** REHABEND 2014  
**Your role:** Speaker  
**Date of the event:** 01/04/2014  
**City:** Santander,  
Maria Inmaculada Martinez Garrido; S Aparicio; R Fort; JJ Anaya; MAG Izquierdo. "REHABEND 2014 1-4 Abril, 2014, Santander, España".pp. 2071 - 2077. ISBN 978-84-616-8863-0
- 7** **Title:** Monitorización para la conservación preventiva del patrimonio construido  
**Name of the conference:** Reunión Científica del Programa Geomateriales, Durabilidad y conservación de geomateriales del patrimonio construido  
**Your role:** Speaker  
**Date of the event:** 09/10/2013  
**City:** Madrid,  
Maria Inmaculada Martinez Garrido; R Fort; MJ Varas-Muriel. "Reunión Científica del Programa Geomateriales, Durabilidad y conservación de geomateriales del patrimonio construido".pp. 8 - 8. ISBN 978-84-616-9222-4
- 8** **Title:** Sensing heritage: wireless sensor network for decay assessment  
**Name of the conference:** Cultural Heritage between knowledge and monitoring. Multiscale approaches and smart technologies  
**Your role:** Speaker  
**Date of the event:** 04/10/2013  
**City:** Potenza,  
Maria Inmaculada Martinez Garrido. "Cultural Heritage between knowledge and monitoring. Multiscale approaches and smart technologies".
- 9** **Title:** Decay assessment through wireless sensor networks implementation for architectural heritage conservation  
**Name of the conference:** Congreso Internacional "Science and Technology for the Conservation of Cultural Heritage"  
**Your role:** Speaker  
**Date of the event:** 02/10/2013  
**City:** Santiago de Compostela,  
Maria Inmaculada Martinez Garrido; S Aparicio; R Fort; MAG Izquierdo; JJ Anaya. "Congreso Internacional "Science and Technology for the Conservation of Cultural Heritage" Santiago de Compostela, Universidad de Santiago, 2-5 octubre 2012".pp. 71 - 74. ISBN 978-1-13800-009-4
- 10** **Title:** VII Jornada de Innovación Pedagógica 'Experiencias de evaluación en e-learning'  
**Name of the conference:** VII Jornada de Innovación Pedagógica "Experiencias de evaluación en e-learning"  
**Your role:** Speaker  
**Date of the event:** 13/04/2013  
**City:** Madrid,  
Miguel Gómez Heras; Maria Inmaculada Martinez Garrido; Pedro Castiñeiras García; M<sup>a</sup> Belén Muñoz García; Cecilia PérezSoba Aguilar; Carlos Rossi Nieto; . Esther Sanz Montero; M<sup>a</sup> Josefa Varas Muriel. "VII Jornada de Innovación Pedagógica "Experiencias de evaluación en e-learning". Ponencias virtuales".pp. 1 - 8.
- 11** **Title:** Decay assessment, diagnosis and monitoring through wireless sensor networks and non destructive techniques for architectural heritage conservation  
**Name of the conference:** CIE Moncloa Campus, 1st Workshop PICATA  
**Your role:** Speaker



**Date of the event:** 12/02/2013

Maria Inmaculada Martinez Garrido; R Fort; MAG Izquierdo. "CIE Moncloa Campus, 1st Workshop PICATA, 12-14 February 2013".pp. 89 - 90. ISBN 978-84-695-7643-4

**12 Title:** Microclimate in a Church with a Forced-Air Central Heating System

**Name of the conference:** Indoor Air Quality In Heritage and Historic Environments, Indoor Air Quality 2012 10th International Conference

**Your role:** Speaker

**Date of the event:** 17/06/2012

**City:** Londres,

Miguel Gomez Heras; M<sup>a</sup> José Varas Muriel; Maria Inmaculada Martinez Garrido; Rafael Fort González; Paula López Arce; Ainara Zornoza Indart. "Indoor Air Quality in Heritage and Historic Environments, "Standards and Guidelines", Book of Abstracts, 14".pp. 85 - 86.

**13 Title:** Wireless sensor networks for monitoring microclimatic conditions in architectural heritage

**Name of the conference:** Indoor Air Quality In Heritage and Historic Environments, Indoor Air Quality 2012 10th International Conference

**Your role:** Speaker

**Date of the event:** 17/06/2012

Maria Inmaculada Martinez Garrido; S Aparicio; R Fort; MAG Izquierdo; JJ Anaya. "Indoor Air Quality in Heritage and Historic Environments, "Standards and Guidelines", Book of Abstracts, 14".pp. 95 - 95.

**14 Title:** Implementing wireless sensor networks for architectural heritage conservation

**Name of the conference:** EGU 2012

**Your role:** Speaker

**Date of the event:** 22/04/2012

**City:** Viena,

Maria Inmaculada Martinez Garrido; S Aparicio; R Fort; MAG Izquierdo; JJ Anaya. "Geophysical Research Abstracts Vol. 14, EGU2012".pp. 1844 - 1844.

**15 Title:** Wireless sensor networks for monitoring decay in architectural heritage

**Name of the conference:** ConserStone 2011

**Your role:** Speaker

**Date of the event:** 07/07/2011

**City:** Órleans,

Maria Inmaculada Martinez Garrido; M Gómez-Heras; S Aparicio; MAG Izquierdo; R Fort; JJ Anaya. "Conservation of Stone Heritage, Proceedings, Orléans, Francia".

**16 Title:** Propuesta de monitorización del deterioro en patrimonio construido mediante redes de sensores

**Name of the conference:** 12º Congreso Nacional de Ensayos No Destructivos

**Your role:** Speaker

**Date of the event:** 15/06/2011

**City:** Valencia,

Maria Inmaculada Martinez Garrido; S Aparicio; MAG Izquierdo; R Fort; JJ Anaya. "12º Congreso Nacional de Ensayos No Destructivos Valencia, 15, 16 y 17 de Junio 2011".pp. 649 - 658.



## Other publishing activities.

**Title or object:** Sensing heritage:wirless sensor network for decay assessment

**Type of event:** Conferences given

**City of the publishing body:** POTENZA, Italy

**Organising body:** CNR-IBAM

Maria Inmaculada Martinez Garrido.

## Experiences transferred

### Experience in assessment and review of R&D&I projects and articles

**1 Name of the activity:** Estancia Internacional

**Type of activity:** Others

**Start date:** 11/05/2015

**2 Name of the activity:** Estancia internacional

**Type of activity:** Others

**Start date:** 14/04/2013