

DEPARTAMENTO DE TEORIA
DE LA SEÑAL Y COMUNIC.

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Áreas de conocimiento:

- TEORIA DE LA SEÑAL Y COMUNICACIONES

ÁREA DE CONOCIMIENTO: TEORIA DE LA SEÑAL Y COMUNICACIONES

Actividades de investigación

Tesis Doctorales

- Búsqueda de relaciones causales para aplicaciones en cardiología y psiquiatría
Autores: DE PRADO CUMPLIDO, M.
Director: ARTES-RODRIGUEZ, A.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2012
- Contribuciones al reconocimiento robusto de habla en redes de comunicaciones mediante transparametrización
Autores: GOMEZ, D.F.
Director: PELAEZ, C.; DIAZ-DE-MARIA, F.
Año: 2012
- Contributions to Reconfigurable Video Coding and low bit Rate Video Coding
Autores: DE-FRUTOS-LOPEZ, M.
Director: DIAZ-DE-MARIA, F.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2012
- Les Machines à Vecteurs de Support pour la Détection de la Direction d'Arrivée
Autores: EL GONNOUNI, A.
Director: MARTINEZ-RAMÓN, M.
Año: 2012
- Neyman-Pearson Detection in Sensor Networks with Dependent Observations
Autores: PLATA-CHAVES, J.
Director: ARTES-RODRIGUEZ, A.; LAZARO, M.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2012
- Técnicas de filtrado bayesiano aplicadas al modelado ambiental cuantitativo en Acústica y Ecología
Autores: MARTIN, L.
Director: MIGUEZ, J.
Año: 2012

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas internacionales

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Colaboraciones en obras colectivas

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Ponencias y Comunicaciones a congresos

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Propiedad Industrial/intelectual

- *Inventores:* GARCIA-ARMADA, A.; GIL, V.P.; SIDNEY, N.; HERNANDO, F.
Método y dispositivo para la inhibición de señales de telefonía móvil
Tipo: PATENTE
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Solicitud: **P201231410**
Fecha Solicitud: 13/09/2012
Países: ESPAÑA
- *Inventores:* SEGOVIA VARGAS, D.; GONZALEZ, V.; GARCIA, L. E. ; HERRAIZ, F.J.; MOYANO, F.; UGARTE, E.; SANMARTIN, J.; INCLAN, L. F. D. ; MONTERO-DE-PAZ, J.
Antena apilada multifrecuencia con metamateriales
Tipo: PATENTE
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Registro: **ES2385951**
Fecha Solicitud: 16/10/2009
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Actividades de cooperación internacional

Acciones integradas y bilaterales

- MARTINO, L.
COOPERACION ESPAÑA- BRASIL NUEVOS METODOS COMPUTACIONALES PARA SISTEMAS ESPECIALES DINÁMICOS., *Universidade Federal do Rio de Janeiro*, BRASIL. Duración: de 2012 a 2012.
Descripción:

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- DANIEL GARCIA DOÑORO
Título: Hibridación FEM-MOM para el análisis de arrays finitos de antenas
Centro Externo: UNIVERSIDAD CATOLICA DE LOUVAIN
País: BÉLGICA
Duración: 01/10/2012 a 31/10/2012.

- DANIEL SEGOVIA VARGAS
Título: Estancia de investigación financiada por la Fundación Caja Madrid para la realización de detectores homodinos y heterodinos en 300 GHz
Centro Externo: Rutherford Appleton Laboratory
País: REINO UNIDO
Duración: 04/2012 a 08/2012.

- EVA RAJO IGLESIAS
Título: Investigadora invitada en el grupo de antenas de Chalmers
Centro Externo: Chalmers University of Technology
País: SUECIA
Duración: 01/02/2012 a 28/02/2012.

- EVA RAJO IGLESIAS
Título: Beca de la Fundación Caja Madrid
Centro Externo: University of Siena
País: ITALIA
Duración: 01/05/2012 a 31/08/2012.

- EVA RAJO IGLESIAS
Título: Profesora invitada en la Universidad Paris X
Centro Externo: Universidad Paris X
País: FRANCIA
Duración: 01/12/2012 a 31/12/2012.

- FERNANDO PEREZ CRUZ
Título: Avances en aprendizaje estadístico para evaluar la predicción de suicidio
Centro Externo: Columbia University, New York State Psychiatric Institute
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/05/2012 a 15/08/2012.

- JAIR MONTOYA MARTINEZ
Título: Estudio e implementación en un smartphone de nuevos métodos de solución al problema inverso del EEG
Centro Externo: Technical University of Denmark, Cognitive Systems Section
País: DINAMARCA
Duración: 20/09/2012 a 16/12/2012.

- JOYNER ALBERTO CADORE CHACON
Título: Estancia breve de investigador FPI. Reservoir computing aplicado a reconocimiento automático de habla
Centro Externo: Carl von Ossietzky University Oldenburg
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Duración: 01/03/2012 a 31/08/2012.

- LUCA MARTINO
Título: COOPERACION ESPAÑA- BRASIL NUEVOS METODOS COMPUTACIONALES PARA SISTEMAS ESPECIALES DINÁMICOS
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Título: Estancia en École Supérieure de Physique et de Chimie Industrielles
Centro Externo: École Supérieure de Physique et de Chimie Industrielles (ESPCI)
País: FRANCIA
Duración: 01/09/2012 a 01/12/2012.

- **PABLO MARTINEZ OLMOS**

Título: Estancia post-doctoral en la École Polytechnique Fédérale de Lausanne (EPFL), Suiza. COLABORACION CON EL GRUPO DE APRENDIZAJE MAQUINA QUE DIRIGE EL PROFESOR MATTHIAS SEEGER PARA PROFUNDIZAR EN METODOS DE INFERENCIA APROXIMADA PARA LA OPTIMIZACION DE EXPERIMENTOS EN RESONANCIAS MAGNETICAS Y ANALISIS DE MODELOS DE IMAGENES CON UN NUMERO MUY REDUCIDO DE MUESTRAS.

Centro Externo: École Polytechnique Fédérale de Lausanne

País: SUIZA

Duración: 01/07/2012 a 31/12/2012.

- **SERGIO SANZ RODRIGUEZ-ESCALONA**

Título: Codificación de vídeo HEV. Supervisor: Dr. Tomas Schierl

Centro Externo: Fraunhofer Heinrich Hertz Institute

País: ALEMANIA

Duración: desde 06/2012.

Estancias de investigadores externos en la universidad

- **JERONIMO ARENAS GARCIA**

Título: Visita de estudiante de doctorado dentro de Proyecto bilateral con IIT Kharagpur

Investigador Externo: KUMAR, B.

Centro Externo: IIT Kharagpur

País: INDIA

Duración: 21/05/2012 a 19/07/2012.

- **JOAQUIN MIGUEZ ARENAS**

Título: Cooperación España-Brasil Nuevos Métodos Computacionales para Sistemas Especiales Dinámicos. "Programa Hispano-Brasileño de Cooperación Interuniversitaria" Convenio de Colaboración entre el Ministerio de Educación, Cultura y Deporte de España y el Ministerio de Educación de Brasil

Investigador Externo: SCHMIDT, A.

Centro Externo: Universidad Federal de Río de Janeiro

País: BRASIL

Duración: 19/10/2012 a 03/11/2012.