



Ernestina Menasalvas Ruiz

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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.

Google Scholar (febrero 2022):

citas 2216

indice h 25

Indice i10 65



Ernestina Menasalvas Ruiz

Surname(s): **Menasalvas Ruiz**
Name: **Ernestina**

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Universidad Politécnica de Madrid. Campus de Montegancedo.
Boadilla del Monte. Madrid. Spain**
Postcode: **28660**
Contact country: **Spain**
Contact aut. region/reg.: **Community of Madrid**
Contact city: **Madrid**

Current professional situation

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University
Department: Lenguajes y Sistemas Informáticos e Ingeniería de Software, Escuela Técnica Superior de Ingenieros Informáticos
Professional category: Catedrático de Unviersidad
Start date: 08/07/2018

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University
Professional category: Profesor Titular de Universidad **Educational Management (Yes/No):** Yes
City employing entity: Madrid, Community of Madrid, Spain
Start date: 21/09/2001
Type of contract: Civil servant **Dedication regime:** Full time

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Politécnica de Madrid	Vicedecano Jefe de Estudios	24/10/2005



	Employing entity	Professional category	Start date
2	Universidad Politécnica de Madrid	Vicerrector de Doctorado y Postgrado	21/04/2008
3	Universidad Politécnica de Madrid	Vicedecano de Doctorado Y Postgrado	11/06/2004
4	Universidad Politécnica de Madrid	Profesor Titular de Universidad Interino	01/10/1998
5	Universidad Politécnica de Madrid	Profesor Asociado Tipo 3	10/10/1995

- 1** **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Vicedecano Jefe de Estudios **Educational Management (Yes/No):** No
Start-End date: 24/10/2005 - 21/04/2008 **Duration:** 2 years - 6 months
Type of contract: Otros
Dedication regime: Full time
- 2** **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Vicerrector de Doctorado y Postgrado **Educational Management (Yes/No):** No
Start date: 21/04/2008 **Duration:** 4 years - 1 month
Type of contract: Otros
Dedication regime: Full time
- 3** **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Vicedecano de Doctorado Y Postgrado **Educational Management (Yes/No):** No
Start date: 11/06/2004 **Duration:** 1 year - 5 months
Type of contract: Civil servant
Dedication regime: Full time
- 4** **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Profesor Titular de Universidad Interino **Educational Management (Yes/No):** Yes
Start date: 01/10/1998 **Duration:** 3 years
Type of contract: Civil servant
Dedication regime: Full time
- 5** **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Profesor Asociado Tipo 3 **Educational Management (Yes/No):** Yes
Start date: 10/10/1995 **Duration:** 3 years
Type of contract: Temporary employment contract
Dedication regime: Full time



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciada en Informática. UPM

City degree awarding entity: Madrid, Community of Madrid, Spain

Degree awarding entity: Universidad Politécnica de Madrid **Type of entity:** University

Date of qualification: 30/09/1994

Average mark: Pass

Doctorates

Doctorate programme: Informática

Degree awarding entity: Universidad Politécnica de Madrid **Type of entity:** University

City degree awarding entity: Madrid, Community of Madrid, Spain

Date of degree: 25/09/1998

Thesis title: Integración del proceso de inferencia de conocimiento con los sistemas de bases de datos relacionales

Thesis director: Covadonga Fernández

Thesis co-director: Anita Wasilewska

Obtained qualification: Sobresaliente Cum Laude por Unanimidad

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Portuguese		B1	C1	C1	B1
English		C1	C1	C1	C1

Teaching experience



Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Big Medical Text Analytics: Querying, Searching and Understanding Clinical Data
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Roberto Costumero
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 20/09/2017
European doctorate: Yes
Quality recognition: Yes
- 2** **Project title:** Autonomous classification models in ubiquitous environments
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Miguel Angel Abad
Obtained qualification: Apto cum laude
Date of reading: 21/12/2015
European doctorate: Yes
- 3** **Project title:** Anotación y consulta de textos escritos en español
Type of project: End of course project
Entity: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Spain
Student: Gedeón Domínguez Torán
Obtained qualification: 10
Date of reading: 19/09/2014
Date of recognition: 19/09/2014
- 4** **Project title:** Dental Implants Success Prediction: Tomography Based and Data Mining Based Approach
Entity: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Spain
Student: Abdallah ELALAILY
Obtained qualification: 8
Date of reading: 11/09/2013
Date of recognition: 11/09/2013
- 5** **Project title:** Autonomous data mining algorithm configurator: application to a social recommender
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Andrea Zanda
Obtained qualification: Sobresaliente
Date of reading: 14/12/2012
European doctorate: Yes
Quality recognition: Yes
- 6** **Project title:** Mejora del autocuidado de pacientes diabéticos en zonas rurales de Panamá a través de Tecnologías TIC
Type of project: Doctoral thesis
Entity: Universidad Politécnica de Madrid **Type of entity:** University



Student: Miguel Vargas
Obtained qualification: Sobresaliente
Date of reading: 06/09/2012

7 Project title: Learning Recurring Concepts from Data Streams in Ubiquitous Environments

Type of project: Doctoral thesis

Entity: Universidad Politécnica de Madrid

Type of entity: University

Student: Joao Gomes

Obtained qualification: Sobresaliente cum laude

Date of reading: 12/12/2011

European doctorate: Yes

8 Project title: Inclusión de información de dominio para datos en modelos de clustering basados en densidad para datos estáticos y data stream

Type of project: Doctoral thesis

Entity: Universidad Politécnica de Madrid

Type of entity: University

Student: Carlos Ruiz

Obtained qualification: Sobresaliente cum laude

Date of reading: 14/12/2009

European doctorate: Yes

9 Project title: Minería de datos dependiente del contexto en dispositivos ubicuos

Type of project: Minor thesis

Entity: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Spain

Student: Miguel Angel Abad Arranz

Obtained qualification: 9

Date of reading: 01/06/2009

10 Project title: Modelo matemático paramétrico de estimación para proyectos de Data Mining (DMCOMO).

Type of project: Doctoral thesis

Co-director of thesis: Juan Jose Cuadrado Gallego

Entity: Universidad Politécnica de Madrid

Type of entity: University

Student: Oscar Marban Gallego

Date of reading: 2003

11 Project title: Arquitectura distribuida de control para sistemas con capacidades de data mining

Entity: Universidad Politécnica de Madrid

Type of entity: University

Student: Jose María Peña Sánchez

Date of reading: 2001



Scientific and technological experience

Research and development groups/teams

Name of the group: Minería de Datos y Simulación (MIDAS)

Name of principal investigator: Ernestina Menasalvas Ruiz

City of group: Madrid, Community of Madrid, Spain

Affiliation entity: Universidad Politécnica de Madrid

Start date: 17/06/2014

Scientific or technological activities

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

- 1** **Name of the project:** CLARIFY: Cancer Long Survivors Artificial Intelligence Follow Up
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Madrid, Spain
Start-End date: 01/01/2020 - 01/01/2023
- 2** **Name of the project:** Uncover: Unravelling Data for Rapid Evidence-Based Response to COVID-19
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
Start-End date: 15/11/2020 - 14/11/2022
Total amount: 2.997.440 €
- 3** **Name of the project:** Cross-CPP: Ecosystem for Services based on integrated Cross-sectorial Data Streams from multiple Cyber Physical Products and Open Data Sources
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Nº of researchers: 3
Start-End date: 27/11/2017 - 27/11/2020
Total amount: 2.836.490 €
- 4** **Name of the project:** BDVe: Big Data Value ecosystem
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Start-End date: 11/11/2016 - 11/11/2020
Total amount: 4.940.396 €



- 5** **Name of the project:** BigMedilytics: Big Data for Medical Analytics
Entity where project took place: Universidad Politecnica de Madrid
City of entity: Madrid,
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Start-End date: 01/01/2018 - 31/12/2018
Total amount: 149.997.306 €
- 6** **Name of the project:** FACET: Integrated supportive services/products to promote FrAilty Care and well function
Entity where project took place: Universidad Politécnica de Madrid
City of entity: Unknown
Name principal investigator (PI, Co-PI....): Francisco del Pozo Guerrero
Nº of researchers: 7
Start-End date: 01/01/2016 - 31/12/2018
Total amount: 250.000 €
- 7** **Name of the project:** PAPHOS: Integrated supportive services to enhance functional
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Unknown
Name principal investigator (PI, Co-PI....): Francisco del Pozo Guerrero
Nº of researchers: 4
Start-End date: 01/01/2016 - 31/12/2017
Total amount: 180.000 €
- 8** **Name of the project:** IBM AWARD
Entity where project took place: Universidad Politécnica de Madrid
City of entity: Unknown
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Nº of researchers: 1
Funding entity or bodies: IBM **Type of entity:** Empresa
Code according to the funding entity: SE151047001
Start-End date: 01/01/2016 - 01/01/2017
Total amount: 15.000 €
- 9** **Name of the project:** COGNITIO: Análisis multiparamétrico de imagen, clínica y terapia para optimización de la rehabilitación cognitiva en DCA
Entity where project took place: Universidad Politécnica de Madrid
City of entity: Unknown
Name principal investigator (PI, Co-PI....): Enrique Javier Gomez Aguilera
Nº of researchers: 7
Funding entity or bodies: Ministerio de Ciencia **Type of entity:** State agency
City funding entity: Madrid
Start-End date: 01/01/2013 - 2017
Total amount: 129.285 €



- 10** **Name of the project:** RETHINK big: Roadmap for European Technologies in Hardware & Networking for Big Data RETHINK big
Entity where project took place: Universidad Politécnica de Madrid
City of entity: Unknown
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Nº of researchers: 6
Start-End date: 05/02/2014 - 31/12/2016
Total amount: 250.000 €
- 11** **Name of the project:** RESILIENCE2050.eu: New design principles fostering safety, agility and resilience for ATM
Entity where project took place: Universidad Politécnica de Madrid
City of entity: Belgium
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Nº of researchers: 10
Funding entity or bodies:
Comisión Europea **Type of entity:** UE
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 11/05/2012 - 01/10/2014
Total amount: 309.025 €
- 12** **Name of the project:** DATA MINING SEMIAUTONOMO PARA ENTORNOS UBICUOS
City of entity: Spain
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Educación y Ciencia
Code according to the funding entity: C08100520
Start-End date: 01/01/2009 - 31/12/2011 **Duration:** 3 years
Total amount: 104.060 €
- 13** **Name of the project:** EDAD: Entorno para el desarrollo e integración automática de archivos digitales Web
City of entity: Unknown
Name principal investigator (PI, Co-PI....): Esperanza Marcos; Ernestina Menasalvas Ruiz
Nº of researchers: 3
Funding entity or bodies:
Comunidad de Madrid **Type of entity:** Publico
City funding entity: Madrid, Community of Madrid, Spain
Code according to the funding entity: 07T/0056/2003
Start-End date: 01/10/2003 - 01/10/2004 **Duration:** 1 year
Total amount: 25.990 €
- 14** **Name of the project:** RT-WEBP: un sistema de detección de perfiles de navegantes web en tiempo real
Entity where project took place: Universidad Politécnica de Madrid
City of entity: Madrid, Unknown
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Nº of researchers: 2
Funding entity or bodies:
Universidad Politécnica de Madrid **Type of entity:** University
City funding entity: Madrid, Community of Madrid, Spain



Code according to the funding entity: OTT-14495

Start-End date: 01/06/2002 - 30/11/2003

Total amount: 21.095 €

- 15 Name of the project:** Diseño de un sistema de DataWarehousing capaz de ser integrado con un sistema de Data Mining genérico

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Madrid,

Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz

Nº of researchers: 3

Funding entity or bodies:

Universidad Politécnica de Madrid

Type of entity: University

City funding entity: Madrid

Start-End date: 04/06/1999 - 04/12/2000

- 16 Name of the project:** IASIS: Integration and analysis of heterogeneous big data for precision medicine and suggested treatments for different type of patients

Entity where project took place: Universidad Politécnica de Madrid

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz

Start date: 03/04/2017

Total amount: 4.337.475 €

- 17 Name of the project:** 1ª RESOLUCIÓN ADJUDICACIÓN AYUDAS PARA PROMOCIÓN DE LA INVESTIGACIÓN EUROPEA.

City of entity: Unknown

Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz

Nº of researchers: 1

Funding entity or bodies:

Universidad Politécnica de Madrid

Type of entity: University

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: VNUEVASINV15EM

Start date: 2017

Total amount: 0 €

- 18 Name of the project:** EIT Label I&E Education: I&E education of doctoral students

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Unknown

Name principal investigator (PI, Co-PI....): Gonzalo Leon Serrano

Nº of researchers: 8

Start date: 17/07/2015

- 19 Name of the project:** Master Data Science-2015: Master Data Science

Entity where project took place: Universidad Politécnica de Madrid

City of entity: Unknown

Name principal investigator (PI, Co-PI....): Marta Patiño Martinez

Nº of researchers: 5

Start date: 17/07/2015



- 20** **Name of the project:** Nuevos Avances en Visualización Analítica
City of entity: Spain
Name principal investigator (PI, Co-PI....): Jose Maria Peña Sanchez
Nº of researchers: 10
Funding entity or bodies:
MINECO

Code according to the funding entity: TIN2014-57481-C2-2-R
Start date: 01/07/2015
Total amount: 78.300 €
- 21** **Name of the project:** Desarrollo de una plataforma web para la anotación semántica de imágenes de satélite
City of entity: Spain
Name principal investigator (PI, Co-PI....): Consuelo Gonzalo Martin
Nº of researchers: 7
Funding entity or bodies:
Universidad Politécnica de Madrid

Code according to the funding entity: AL15-PID-25, 2015
Start date: 01/02/2015 **Duration:** 3 years
Total amount: 36.000 €
- 22** **Name of the project:** DESARROLLO DE LA PROPUESTA DE UN DOCTORAL TRAINING CENTER (DTC) EN MADRID DEL NODO ESPAÑOL DE LA KNOWLEDGE AND INNOVATION COMMUNITY (KIC) DENOMINADA ICT LABS DEL EUROPEAN INSTITUTE OF TECHNOLOGY
City of entity: Spain
Name principal investigator (PI, Co-PI....): Ernestina Menasalvas Ruiz
Nº of researchers: 1
Funding entity or bodies:
IMDEA-SW

Code according to the funding entity: P1410470339
Start date: 01/01/2014
Total amount: 0 €
- 23** **Name of the project:** HBP: The Human Brain Project HBP
City of entity: Unknown
Name principal investigator (PI, Co-PI....): Javier De Felipe Oroquieta
Nº of researchers: 35
Start date: 02/09/2013
Total amount: 1.862.835 €
- 24** **Name of the project:** Data Mining Autónomo: el reto de la ubicuidad en los procesos de Data Mining
City of entity: Spain
Name principal investigator (PI, Co-PI....): Santiago Eibe Garcia
Nº of researchers: 5
Funding entity or bodies:
Universidad Politécnica de Madrid **Type of entity:** University
City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: M0700204121



Start date: 2009

Total amount: 25.000 €

25 Name of the project: GOLD: GESTION DE IMAGENES MEDICAS

City of entity: Spain

Name principal investigator (PI, Co-PI....): M.Carmen Costilla Rodriguez; Esperanza Marcos

Nº of researchers: 4

Funding entity or bodies:

MCYT

Code according to the funding entity: TIC 2005-00010

Start date: 2008

Total amount: 25.000 €

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

1 Name of the project: The Science of Digital

Nº of researchers: 4

Funding entity or bodies:

CDTI

Type of entity: State agency

City funding entity: Madrid, Spain

Start date: 01/01/2017

Duration: 1 year

Total amount: 61.920 €

2 Name of the project: Patrimonio Histórico Iberoamericano (PHI) ADENDA 2015

City of entity: Spain

Nº of researchers: 5

Funding entity or bodies:

KALAM

Type of entity: empresa

Start date: 19/10/2015

Total amount: 15.000 €

3 Name of the project: Analisis de Sentencias Judiciales

Nº of researchers: 4

Start date: 01/05/2014

Duration: 6 months

Total amount: 3.600 €

4 Name of the project: Algoritmos de Fusión de Imagen

Nº of researchers: 4

Start date: 03/03/2014

Duration: 3 months

Total amount: 5.100 €

5 Name of the project: Water Research Center for Agriculture and Mining

Nº of researchers: 15

Start date: 15/10/2013

Duration: 1 year

Total amount: 900.000 €



6 **Name of the project:** Nuevas estrategias de procesamiento de datos multi-sensor para la estimación y y visualización de mapas de evapotranspiración de cultivos multiresolución

City of entity: Spain

Name principal investigator (PI, Co-PI....): Consuelo Gonzalo Martin

Nº of researchers: 8

Funding entity or bodies:

Universidad Politécnica de Madrid

Type of entity: University

Start date: 01/01/2013

Total amount: 7.600 €

7 **Name of the project:** Formación In Company

Nº of researchers: 2

Start date: 01/06/2012

Duration: 2 months

Total amount: 11.000 €

8 **Name of the project:** Data Mining y GeoMarketing para datos financieros

Degree of contribution: Researcher

Nº of researchers: 3

Start date: 01/01/2010

Duration: 2 years

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Peñalvo; Mertens; Ademović; Akgun; Baltazar; Buonfrate; Čoklo; Devleesschauwer; Diaz Valencia; Fernandes; Gómez; Hynds; Kabir; Klein; Kostoulas; Llanos Jiménez; Lucia Maria Lotrean; Majdan; Menasalvas; Castellano. Unravelling data for rapid evidence-based response to COVID-19: a summary of the unCoVer protocol. BMJ Open. 01/11/2021.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

2 madrid; mateo; Pato; Jover; Fernandez; Abasolo; Menasalvas; Rodriguez. Predictors of health-related quality of life in musculoskeletal disease patients: a longitudinal analysis. Therapeutic Advances in Musculoskeletal Disease. 25/07/2021.

Type of production: Scientific paper

Format: Journal

3 Garcia del Valle; Garcia; Prieto; Zanin; Menasalvas; Rodriguez. Leveraging network analysis to evaluate biomedical named entity recognition tools. Scientific Reports. 11, 29/06/2021.

Type of production: Scientific paper

Format: Journal

4 Blazquez; Caballero; Zilverberg; Wolff; Rodriguez; Menasalvas. Journal Article Clustering Moving Object Trajectories: Integration in CROSS-CPP Analytic Toolbox. Applied Sciences. 11, 20/04/2021.

Type of production: Scientific paper

Format: Journal

- 5** Torrente; Sousa; Sánchez-Ramos; Franco; Pimentao; Collazo; Royuela; Menasalvas; Provencio. To burn-out or not to burn-out: A cross-sectional study in healthcare professionals in Spain during COVID-19 pandemic. BMJ open. 11 - 2, 24/02/2021.
Type of production: Scientific paper **Format:** Journal
- 6** Alejandro Rodriguez; Juan Manuel Tuñas; Lucia Prieto; Diego Fernandez; Ernestina Menasalvas; Almudena Jaramillo; Manuel Cotarelo; antonio conejo; Amalia Arce; Angel Gil. Identifying Polarity in Tweets from an Imbalanced Dataset about Diseases and Vaccines Using a Meta-Model Based on Machine Learning Techniques. Applied Sciences. 10 - 24, 17/12/2020.
DOI: <https://doi.org/10.3390/app10249019>
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: web de la revista
Impact index in year of publication: 2.474
- 7** Marjan Najafabadipou; Massimiliano Zanin; Alejandro Rodriguez; Maria Torrente; Beatriz Nuñez; Juan Luis Cruz; Mariano Provencio; Ernestina Menasalvas. Reconstructing the patient's natural history from electronic health records. Artificial Intelligence in Medicine. 105, Elsevier, 05/2020.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Artificial Intelligence
Impact index in year of publication: 4,383 **Journal in the top 25%:** Yes
Position of publication: 30 **No. of journals in the cat.:** 137
- 8** Alejandro Rodriguez; Mariano Provencio; Alejandro Rodriguez; Ernestina Menasalvas. ¿Puede Data Science ayudarnos a mejorar el pronóstico y tratamiento del Paciente oncológico?. Comunicación y Hombre. 16, 11/03/2020.
Type of production: Scientific paper **Format:** Journal
- 9** Andreas Philipp Hassler; Ernestina Menasalvas Ruiz; Francisco Jose Garcia Garcia; Leocadio Rodriguez Mañas; Andreas Holzinger. Importance of medical data preprocessing in predictive modeling and risk factor discovery for the frailty syndrome. BMC Medical Informatics and Decision Making. 19 - 33, 01/02/2019.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI
Impact index in year of publication: 2.317
- 10** Massimiliano Zanin; Juan Manuel Tuñas; Ernestina Menasalvas Ruiz; Sebastien Bailly; Jean Luis Pepin; Pierre Hainaut. Characterising obstructive sleep apnea patients through complex networks. CHAOS SOLITONS & FRACTALS. 119, pp. 196 - 202. 2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** UR
Impact index in year of publication: 3,764 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 55
- 11** ernestina menasalvas; sebastian wandelt; xiaoqian sun; massimiliano zanin; alejandro rodriguez-gonzalez.. On the use of random graphs as null model of large connected networks. publicación: CHAOS SOLITONS & FRACTALS. volumen: 119 - null,. CHAOS SOLITONS & FRACTALS. 119, pp. 318 - 325.. 2019. ISSN 0960-0779
Type of production: Scientific paper



- 12** Massimiliano Zanin; Ernestina Menasalvas; Xiaoqian Sun Sun; Sebastian Wandelt. From the Difference of Structures to the Structure of the Difference. Complexity. 2018, Hindaw, 12/2018.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Computer Science (miscellaneous)
Impact index in year of publication: 2,591 **Journal in the top 25%:** Yes
Position of publication: 21 **No. of journals in the cat.:** 105
- 13** Massimiliano Zanin; Alejandro Rodriguez; Ernestina Menasalvas; David Papo. Assessing Time Series Reversibility through Permutation Patterns. Entropy. 09/2018.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Multidisciplinary
Impact index in year of publication: 2,419 **Journal in the top 25%:** No
Position of publication: 28 **No. of journals in the cat.:** 81
- 14** Cesar Ortiz; Consuelo Gonzalo; Angel García-Pedrero; Ernestina Menasalvas. Supervoxels-Based Histon as a New Alzheimer's Disease Imaging Biomarker. Sensor. 05/2018.
Type of production: Scientific paper **Format:** Journal
- 15** massimiliano zanin; alejandro rodriguez-gonzalez; ernestina menasalvas ruiz; david papo.. Assessing Time Series Reversibility through Permutation Patterns.ENTROPY.20 - 9,, pp. 15.. 2018. ISSN 1099-4300
Type of production: Scientific paper
- 16** alejandro rodriguez-gonzalez; roberto costumero; ernestina menasalvas-ruiz; mark d. wilkinson; marcos martinez-romero. . Extracting Diagnostic Knowledge from MedLine Plus: A Comparison between MetaMap and cTAKES Approaches. revista:CURRENT BIOINFORMATICS. volume 13 - 6,. CURRENT BIOINFORMATICS. 13 - 6, pp. 572 - 582.. 2018. ISSN 1574-8936
Type of production: Scientific paper
Impact source: ISI **Category:** Science Edition - MATHEMATICAL & COMPUTATIONAL BIOLOGY
Impact index in year of publication: 0,1336 **Journal in the top 25%:** No
Position of publication: 47 **No. of journals in the cat.:** 59
- 17** Ernestina Menasalvas; Ayan Seal; Consuelo Gonzalo-martin; Debotosh Bhattacharjee; Mita Nasipuri; dionisio rodriguez-esparragon. PET-CT image fusion using random forest and a-trous wavelet transform. INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING. 34 - 3, pp. 0 - 16. 2018. ISSN 2040-7939
Type of production: Scientific paper
Position of signature: 1
Impact source: ISI
Impact index in year of publication: 2,192
- 18** Angel Garcia-Pedrero; Consuelo Gonzalo-martin; Ernestina Menasalvas; Mario f. Lillo-saavedra; Dionisio Rodriguez-Esparragon. Convolutional Neural Networks for estimating spatially-distributed evapotranspiration. IMAGE AND SIGNAL PROCESSING FOR REMOTE SENSING XXIII. 10427 - null, pp. 0 - 9. 2017. ISSN 0277-786X
Type of production: Scientific paper
Position of signature: 3



- 19** Consuelo Gonzalo-martin; Angel Garcia-pedrero; Ernestina Menasalvas; Mario Lillo-saavedra; Octavio Lagos. Daily Evapotranspiration Mapping Using Regression Random Forest Models. IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING. 10 - 12, pp. 5359 - 5368. 2017. ISSN 1939-1404
Type of production: Scientific paper
Position of signature: 3
Impact source: ISI
Impact index in year of publication: 2,145
- 20** Consuelo Gonzalo-martin; Ayan Seal; Ernestina Menasalvas; Debotosh Bhattacharjee; Mita Nasipuri. Fusion of Visible and Thermal Images Using a Directed Search Method for Face Recognition. INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE. 31 - 4, pp. 0 - 17. 2017. ISSN 0218-0014
Type of production: Scientific paper
Position of signature: 3
Impact source: ISI
Impact index in year of publication: 0,669
- 21** David Papo; Massimiliano Zanin; Ernestina Menasalvas; Pedro Sousa; A. Nicchi; e. kubik; s. boccaletti. Combining complex networks and data mining: Why and how. PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. 635 - null, pp. 1 - 44. 2016. ISSN 0370-1573
Type of production: Scientific paper
Position of signature: 3
Impact source: ISI
Impact index in year of publication: 17,425
Position of publication: 3
Category: Multidisciplinary
Journal in the top 25%: Yes
No. of journals in the cat.: 79
- 22** Roberto Costumero; Jesus Sanchez; Angel Mario García Pedrero; Consuelo Gonzalo-martin; Diego Rivera; Ernestina Menasalvas; Mario Lillo. Geography of legal water disputes in Chile. JOURNAL OF MAPS. 13 - 1, pp. 7 - 13. 2016. ISSN 1744-5647
Type of production: Scientific paper
Position of signature: 6
Impact source: ISI
Impact index in year of publication: 1,193
- 23** Consuelo Gonzalo-martin; Diego Rivera; Ernestina Menasalvas; Alex Godoy-faundez; Roberto Costumero; Mario Lillo; Angel Mario García Pedrero; Amaya Alvez; Veronica Delgado. Legal disputes as a proxy for regional conflicts over water rights in Chile. JOURNAL OF HYDROLOGY. 535 - null, pp. 36 - 45. 2016. ISSN 0022-1694
Type of production: Scientific paper
Position of signature: 3
Impact source: ISI
Impact index in year of publication: 3,053
- 24** Consuelo Gonzalo Martin; Mario Lillo Saavedra; Ernestina Menasalvas Ruiz; David Fonseca Luengo; Angel Mario García Pedrero; Roberto Costumero Moreno. Local optimal scale in a hierarchical segmentation method for satellite images. Journal of Intelligent Information Systems. pp. 0 - 0. 06/2015. ISSN 0925-9902
Type of production: Scientific paper
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- 25** Alejandro Rodriguez Gonzalez; Ernestina Menasalvas Ruiz; Miguel Angel Mayer. Automatic extraction and identification of users responses in Facebook medical quizzes. Computer Methods And Programs in Biomedicine. pp. 0 - 0. 05/2015. ISSN 0169-2607
Type of production: Scientific paper
Position of signature: 2
Impact index in year of publication: 1,093
- 26** Alejandro Rodriguez Gonzalez; Roberto Costumero Moreno; Marcos Martinez Romero; Mark Denis Wilkinson; Ernestina Menasalvas Ruiz. Extracting Diagnostic Knowledge from MedLine Plus: a Comparison between MetaMap and cTAKES Approaches. Current Bioinformatics. 05/2015. ISSN 1574-8936
Type of production: Scientific paper
Position of signature: 5
Impact index in year of publication: 1,726
- 27** Cesar Antonio Ortiz Toro; Consuelo Gonzalo Martin; Angel Mario García Pedrero; Ernestina Menasalvas Ruiz. Superpixel-Based Roughness Measure for Multispectral Satellite Image Segmentation. Remote Sensing. 7 - 11, pp. 14620 - 14645. 05/2015. ISSN 2072-4292
Type of production: Scientific paper
Position of signature: 4
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- 28** Miguel Angel Abad Arranz; Joao Bartolo Gomes; Ernestina Menasalvas Ruiz. Predicting recurring concepts on data-streams by means of a meta-model and a fuzzy similarity function. Expert Systems With Applications. 46 - null, pp. 87 - 105. 03/2015. ISSN 0957-4174
Type of production: Scientific paper
Position of signature: 3
Impact index in year of publication: 2,24
- 29** Fernando Maestu; Jose Maria Peña Sanchez; Pilar Garces; Santiago González Tortosa; Ricardo Bajo; Pablo Cuesta; Anto Bagic; Ernestina Menasalvas; Maria e. Lopez; Francisco del Pozo; michael funke; jyrki p. makela; akinori nakamura; lauri parkkonen; gustavo sudre; edward zamrini; eero pekkonen; richard n. henson; james t. becker. A multicenter study of the early detection of synaptic dysfunction in Mild Cognitive Impairment using Magnetoencephalography-derived functional connectivity. NEUROIMAGE-CLINICAL. 9 - null, pp. 103 - 109. 2015. ISSN 2213-1582
Type of production: Scientific paper
Position of signature: 8
Impact source: ISI
Impact index in year of publication: 2,526
- 30** Javier Solana Sanchez; César Cáceres Taladriz; alberto garcia-molina; Paloma Chausa Fernández; eloy opisso; teresa roig-rovira; Ernestina Menasalvas Ruiz; Jose M Tormos-Muñoz; Enrique Javier Gomez Aguilera. Intelligent Therapy Assistant (ITA) for cognitive rehabilitation in patients with acquired brain injury. BMC Medical Informatics And Decision Making. pp. online - online. 07/2014. ISSN 1472-6947
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Impact index in year of publication: 1,6

- 31** Antonio Gracia Berna; Santiago González Tortosa; Victor Robles Forcada; Ernestina Menasalvas Ruiz; Tatiana von Landesberger. New insights into the suitability of the third dimension for visualizing multivariate/multidimensional data: a study based on loss of quality quantification. Information Visualization. pp. 0 - 0. 05/2014. ISSN 1473-8716
Type of production: Scientific paper
Position of signature: 4
Impact index in year of publication: 1
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Type of production: Scientific paper
Position of signature: 6
Impact source: ISI
Impact index in year of publication: 3,643
- 33** Ernestina Menasalvas; Massimiliano Zanin; Pedro Sousa. Information content: Assessing meso-scale structures in complex networks. EPL (Europhysics Letters). 106 - 3, pp. 0 - 6. 2014. ISSN 0295-5075
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 2,26
- 34** Ernestina Menasalvas; Joao Bartolo Gomes; Mohamed medhat Gaber; Pedro a. c. Sousa. Mining Recurring Concepts in a Dynamic Feature Space. IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS. 25 - 1, pp. 95 - 110. 2014. ISSN 2162-237X
Type of production: Scientific paper
Position of signature: 1
- 35** Joaquin medina Alcazar; Massimiliano Zanin; Jesus Vicente Carbajosa; Marcela Gomez Paez; David Papo; Ernestina Menasalvas; Pedro Sousa; Stefano Boccaletti. Parenclitic networks: uncovering new functions in biological data. SCIENTIFIC REPORTS. 4 - null, pp. 0 - 6. 2014. ISSN 2045-2322
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Position of signature: 6
Impact source: ISI
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Type of production: Scientific paper
Position of signature: 10
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Position of signature: 1



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Type of production: Scientific paper
Position of signature: 1
Impact source: ISI
Impact index in year of publication: 4,092
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- 41** Francisco Garcia Fernandez; Paloma de Palacios De Palacios; Luis Garcia Esteban; Alberto García Iruela; Beatriz Gonzalez Rodrigo; Ernestina Menasalvas Ruiz. Prediction of MOR and MOE of structural plywood board using an artificial neural network and comparison with a multivariate regression model. Composites Part B-Engineering. 43 - 8, pp. 3528 - 3533. 12/2012. ISSN 1359-8368
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- 44** Joao Bartolo Gomes; Pedro Sousa; Ernestina Menasalvas Ruiz. Tracking recurrent concepts using context. Intelligent Data Analysis. 16 - 5, pp. 803 - 825. 05/2012. ISSN 1088-467X
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Position of signature: 5
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- 46** Andrea Zanda; Santiago Eibe; Ernestina Menasalvas. SOMAR: A SOcial Mobile Activity Recommender. EXPERT SYSTEMS WITH APPLICATIONS. 39 - 9, pp. 8423 - 8429. 2012. ISSN 0957-4174
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- 47** Miguel Vargas Lombardo; Armando Jipsion; Rafael Vejarano; Ismael Camargo; Humberto Álvarez; Elena Villalba Mora; Ernestina Menasalvas Ruiz. Technologies to Better Serve the Millions of Diabetic Patients: A Holistic, Interactive and Persuasive ICT Model to Facilitate Self Care, in Extremely Poor Rural Zones of Central America. JOURNAL OF MEDICAL SYSTEMS. 12 - 9, pp. 717 - 722. 09/2010. ISSN 0148-5598
Type of production: Scientific paper
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Impact index in year of publication: 0,654
- 48** Carlos Ruiz; Myra Spiliopoulou; Ernestina Menasalvas. Density-based semi-supervised clustering. DATA MINING AND KNOWLEDGE DISCOVERY. 21 - 3, pp. 345 - 370. 05/2010. ISSN 1384-5810
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Impact source: ISI
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- 50** Maria Valencia; Codrina Lauth; Ernestina Menasalvas. Emerging User Intentions: Matching User Queries with Topic Evolution in News text Streams. INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS. 17 - null, pp. 59 - 80. 05/2009. ISSN 0218-4885
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Impact index in year of publication: 1,124
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Position of signature: 2
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Impact index in year of publication: 1,124
- 62** Ernestina Menasalvas Ruiz; Socorro Millán; Jose Maria Peña Sanchez; Mike Hadjimichael; Oscar Marban. Subsessions: A granular approach to click path analysis. INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS. 19 - 7, pp. 619 - 637. 05/2004. ISSN 0884-8173
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Impact source: ISI

Impact index in year of publication: 0,515

- 74** Aysegul Cayci; Ernestina Menasalvas Ruiz; Santiago Eibe Garcia; Yucel Saygin. Bayesian Networks to Predict Data Mining Algorithm Behavior in Ubiquitous Computing Environments. Analysis of Social Media and Ubiquitous Data International Workshops MSM 2010, Toronto, Canada, June 13, 2010, and MUSE 2010, Barcelona, Spain, September 20, 2010, Revised Selected Papers. 119-141, Springer, 2011. ISBN 978-3-642-23598-6

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Position of signature: 2

- 75** Christelle Scharff; Ernestina Menasalvas Ruiz; Anita Wasilewska. A Model PM for Preprocessing and Data Mining Proper Process. Transactions on Rough Sets VI. 397-399, Springer, 2007. ISBN 978-3-540-71198-8

Type of production: Book chapter

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- 76** Carlos Ruiz; Pedro González-Aranda; Ernestina Menasalvas Ruiz; Socorro Millán; Fco.Javier Segovia Perez. Towards a Methodology for Data Mining Project Development: The Importance of Abstraction. Studies in Computational Intelligence. 165-178, Springer Berlin / Heidelberg, 2007. ISBN 978-3-540-78487-6

Type of production: Book chapter

Position of signature: 3

- 77** Oscar Marban Gallego; Ernestina Menasalvas Ruiz; Cesar Montes; Fco.Javier Segovia Perez; John RajaKulendran. CRM in e-business: a client's life cycle model based on a neural network. e-Commerce and Intelligent Methods. 61-77, Physica-Verlag, 2002. ISBN 3-7908-1499-7

Type of production: Book chapter

Position of signature: 2

- 78** Ernestina Menasalvas Ruiz; Oscar Marban Gallego; Socorro Millán; Jose Maria Peña Sanchez. Intelligent web mining. Intelligent exploration of the web. 363-388, 2002. ISBN 3-7908-1529-2

Type of production: Book chapter

Position of signature: 1

- 79** Acronym Disambiguation in Spanish Electronic Health Narratives Using Machine Learning Techniques. 2017.

Type of production: Scientific book or monograph

Format: Book



- 80** Automatic Recording and Analysis of Somniloquy Through the Use of Mobile Devices to Support the Diagnosis of Psychological Pathologies. 2017.
Type of production: Scientific book or monograph **Format:** Book
- 81** Ernestina Menasalvas Ruiz. Methods and Supporting Technologies for Data Analysis, 1st edition. Springer, 2009. ISBN 3642021956
Type of production: Scientific book or monograph **Format:** Book
Position of signature: 1
- 82** Ernestina Menasalvas Ruiz; Anita Wasilewska. Data Preprocessing and Data Mining as Generalization. Data Mining: Foundations and Practice. Studies in Computational Intelligence. 118, Springer, 2008. Available on-line at: <Data Mining: Foundations and Practice 2008: Vol. 118 Springer 2008, ISBN 978-3-540-78487-6>.
Type of production: Capitulo de libro
Position of signature: 1
- 83** Daily Evapotranspiration Mapping Using Regression Random Forest Models. 2017.
- 84** ernestina menasalvas; sebastian wandelt; xiaoqian sun; massimiliano zanin; alejandro rodriguez-gonzalez.. On the use of random graphs as null model of large connected networks. CHAOS SOLITONS & FRACTALS. 119 - null,. pp. 325. 2019.. ISSN 0960-0779

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: Comité de Ética de la UPM
Affiliation entity: Universidad Politécnica de Madrid
Start-End date: 01/05/2012 - 01/05/2017

Organization of R&D activities

- 1** **Title of the activity:** Editorial Board
Geographical area: Non EU International
Convening entity: Data Mining and Knowledge Discovery
Start date: 01/03/2018
- 2** **Title of the activity:** III Seminario taller Proyectar la Memoria
Type of activity: Responsabilidades en la organización de eventos
City of event: najera,
Start date: 10/03/2014
- 3** **Title of the activity:** PC Senior Member
Convening entity: International Conference on Knowledge Discovery (KDD)
- 4** **Title of the activity:** Revisor de la revista Frontiers in Neuroanatomy
Type of activity: Responsabilidades en la evaluación de proyectos internacionales

**C****V****n**

CURRÍCULUM VÍTAE NORMALIZADO

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R&D management

- 1** **Name of the activity:** Junta de Gobierno CLC EIT-Health Spain
Performed tasks: Miembro electo
Start date: 01/07/2017 **Duration:** 1 year - 3 months
- 2** **Name of the activity:** Board of Directors de la BDVA
Performed tasks: Miembro electo
Start date: 2014 **Duration:** 3 years