

## Ciencias de la Computación e Inteligencia Artificial

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**Áreas de conocimiento:** Ciencias de la Computación e Inteligencia Artificial

**Director:** Juan Francisco Huete Guadix

**Secretario:** Manuel Pegalajar Cuellar

**Página web:** <http://decsai.ugr.es>

**Profesorado:** CU: 33, PTU: 30, PDI Contratado: 8 y Otros: 3.

### Tesis leídas

- Sentiment analysis based methods for cultural monuments

Doctorando: Ana Valdivia García

Director: Francisco Herrera Triguero, M.Victoria Luzón García

Fecha de lectura: 01/02/2019

Nombre de la tesis: Arquitectura de referencia para entornos inteligentes de aprendizaje soportados en la consciencia conductural

Doctorando: Jorge Elieccer Gómez Gómez

Director: Juan Francisco Huete Guadix

Fecha de lectura: 05/12/2018

- Personalized individual semantics in computing with words for supporting linguistic group decision making

Doctorando: Cong-Cong Li

Director: Francisco Herrera Triguero, Yucheng Dong

Fecha de lectura: 11/10/2018

- Minería de Datos Supervisada en Redes: Predicción de Enlaces y Aplicaciones

Doctorando: Victor Martínez López

Director: Juan Carlos Cubero Talavera, Fernando Berzal Galiano

Fecha de lectura: 05/10/2018

### Grupos de Investigación.

TIC174 BASES DE DATOS Y SISTEMAS DE INFORMACION INTELIGENTES

- Responsable: MARÍA AMPARO VILA MIRANDA

HUM062 DiGEC: DISCRIMINACIÓN, GENOCIDIO Y EXTERMINIO CULTURAL. LITERATURA FEMENINA DEL HOLOCAUSTO

- Responsable: Francisco Javier Abad Ortega

TIC175 GRUPO DE SISTEMAS INTELIGENTES

- Responsable: ANTONIO GONZALEZ MUÑOZ

TIC210 INTELIGENCIA COMPUTACIONAL

- Responsable: JUAN LUIS CASTRO PEÑA

TIC169 MODELOS DE DECISIÓN Y OPTIMIZACIÓN

- Responsable: MARIA TERESA LAMATA JIMENEZ

TIC116 PROCESAMIENTO DE LA INFORMACIÓN VISUAL

- Responsable: NICOLÁS PÉREZ DE LA BLANCA CAPILLA

TIC111 RAZONAMIENTO APROXIMADO E INTELIGENCIA ARTIFICIAL

- Responsable: MIGUEL DELGADO CALVO-FLORES

TIC186 SOFT COMPUTING Y SISTEMAS DE INFORMACIÓN INTELIGENTES

- Responsable: FRANCISCO HERRERA TRIGUERO

TIC103 TRATAMIENTO DE INCERTIDUMBRE EN SISTEMAS INTELIGENTES

- Responsable: LUIS MIGUEL DE CAMPOS IBAÑEZ

TIC187 VISION POR COMPUTADOR

- Responsable: JOAQUIN FERNANDEZ VALDIVIA

### Dirección y participación en Proyectos I+D

- 2019 Deep Learning and Smart Data for Complex Problems, , 01/05/2019-30/04/2021

Investigador/a EUGENIO MARTÍNEZ CÁMARA

- 2019 Recuperación y Descripción de Imágenes mediante Lenguaje Natural usando técnicas de Aprendizaje Profundo y Computación Flexible, , 01/01/2019-31/12/2021

Investigador/a NICOLÁS MARÍN RUIZ

Investigador/a DANIEL SANCHEZ FERNANDEZ

Investigador JESÚS CHAMORRO MARTÍNEZ

Investigador JUAN MIGUEL MEDINA RODRIGUEZ

Investigador/a IGNACIO JOSÉ BLANCO MEDINA

- 2018 SKELETON-ID: Soft Computing and Computer Vision for Comparative Radiography in Forensic Identification, , 01/04/2018-01/03/2020

Investigador OSCAR CORDÓN GARCÍA

- 2018 SMART-DASCI: Modelos de Ciencia de Datos e Inteligencia Computacional: Tendiendo el Puente Entre

- Big Data y Smart Data, , 01/01/2018-31/12/2020  
Investigador/a RAFAEL ALCALÁ FERNÁNDEZ  
Investigador/a SIHAM TABIK  
Investigador/a MANUEL LOZANO MARQUEZ  
Investigador/a JULIAN LUENGO MARTIN  
Investigador/a JORGE CASILLAS BARRANQUERO  
Investigador SALVADOR GARCÍA LÓPEZ  
Investigador FRANCISCO HERRERA TRIGUERO  
Investigador/a JESÚS ALCALÁ FERNÁNDEZ  
Investigador/a ALBERTO FERNÁNDEZ HILARIO
- 2018 Integration Of Omics And Environmental Data To Develop Artificial Intelligence-based Predictive Tools For The Early-life Prevention Of Adulthood Obesity-related Chronic Diseases, , 01/03/2018-28/02/2019  
Investigador/a RAFAEL ALCALÁ FERNÁNDEZ  
Investigador/a LUIS ALBERTO SEGURA DELGADO
- 2018 'CONSTRUCCION DE UN ASISTENTE COMPUTACIONAL PARA LOS PROCESOS DE REVISION CIENTIFICA Y LA RECOMENDACION DE REVISTAS.', Competitivo, 01/01/2018-31/12/2020  
Investigador/a JOSÉ ANTONIO GARCÍA SORIA  
Investigador/a JOAQUIN FERNANDEZ VALDIVIA  
Responsable ROSA MARÍA RODRÍGUEZ SÁNCHEZ
- 2018 'ANÁLISIS DE MODELOS DE MOVILIDAD Y ENERGÍAS RENOVABLES BASADOS EN INTELIGENCIA COMPUTACIONAL: APLICACIONES EN EL ÁMBITO DE LAS CIUDADES SOSTENIBLES', Competitivo, 01/01/2018-31/12/2020  
Responsable DAVID ALEJANDRO PELTA MOCHCOVSKY  
Responsable JOSE LUIS VERDEGAY GALDEANO
- 2018 SMART-DASCI: MODELOS DE CIENCIA DE DATOS E INTELIGENCIA COMPUTACIONAL: TENDIENDO EL PUENTE ENTRE BIG DATA Y SMART DATA, Competitivo, 01/01/2018-31/12/2020  
Responsable SALVADOR GARCÍA LÓPEZ
- 2018 NUEVAS METODOLOGÍAS DE INTELIGENCIA ARTIFICIAL PARA LA RECONSTRUCCIÓN DE HAPLOTIPOS A PARTIR DE SECUENCIACIÓN DE ADN, Competitivo, 01/01/2018-31/12/2020  
Investigador/a MICHELA VERBENI  
Responsable ARMANDO BLANCO MORON
- 2018 INTEGRATION OF OMICS AND ENVIRONMENTAL DATA TO DEVELOP ARTIFICIAL INTELLIGENCE-BASED PREDICTIVE TOOLS FOR THE EARLY-LIFE PREVENTION OF ADULTHOOD OBESITY-RELATED CHRONIC DISEASES, Competitivo, 14/02/2018-14/02/2019  
Investigador/a RAFAEL ALCALÁ FERNÁNDEZ  
Investigador/a JESÚS ALCALÁ FERNÁNDEZ
- 2018 DEEP LEARNING PARA CONTROL Y EFICIENCIA ENERGÉTICA EN EDIFICIOS, Competitivo, 01/09/2018-01/09/2020  
Responsable JUAN GÓMEZ ROMERO
- 2018 COPKIT Technology, training for Early-Warning/Early-Action led policing in fighting Organised Crime and Terrorism, , 02/07/2018-30/06/2021  
Coordinador JUAN GÓMEZ ROMERO
- 2018 Desarrollo de un sistema de detección de armas en vídeos en tiempo real basado en Deep Learning., , 01/04/2018-30/12/2018  
Investigador SIHAM TABIK
- 2018 EmoPlay: Sistema interactivo multimedia basado en juegos educativos personalizados para fomentar el desarrollo de habilidades socio-emocionales en niños/as con trastornos del desarrollo, , 01/07/2018-30/06/2019  
Investigador/a DANIEL SANCHEZ FERNANDEZ  
Investigador/a JESÚS ALCALÁ FERNÁNDEZ
- 2018 SMART-DASCI: Data Science and Computational Intelligence Models: Bridging the gap from Big Data and Smart Data, , 01/01/2018-31/12/2020  
Investigador/a EUGENIO MARTÍNEZ CÁMARA

#### Contratos de investigación

- 2019 Asesoría científica en el diseño y construcción para el Asistente Digital, ARTÍCULO 83, 04/02/2019-03/02/2020  
Responsable FRANCISCO HERRERA TRIGUERO  
Responsable EUGENIO MARTÍNEZ CÁMARA
- 2018 Transformación de información no estructurada a información estructurada en analíticas de sangre, CONTRATO ART. 83, 21/08/2018-31/12/2018  
Coordinador FRANCISCO HERRERA TRIGUERO  
Coordinador EUGENIO MARTÍNEZ CÁMARA

- 2018 Transformar información no estructurada procedente de análisis clínicos en información estructurada, ARTÍCULO 83, 21/08/2018-31/12/2018  
Responsable FRANCISCO HERRERA TRIGUERO

#### Publicaciones en revistas

- 2019 Artículo: Computing the bound of an Ore polynomial. Applications to factorization., Journal of Symbolic Computation, 92, , 269-297  
GABRIEL NAVARRO GARULO
- 2019 Artículo: Towards adaptive maps, International Journal of Intelligent Systems, 34, 3, 400-414  
CARLOS ALBERTO CRUZ CORONA  
DAVID ALEJANDRO PELTA MOCHCOVSKY  
JOSE LUIS VERDEGAY GALDEANO  
MARINA TORRES ANAYA
- 2019 Artículo: Carrying out consensual Group Decision Making processes under social networks using sentiment analysis over comparative expressions, Knowledge-Based Systems, 165, , 335-345  
ENRIQUE HERRERA VIEDMA  
JUAN ANTONIO MORENTE MOLINERA
- 2019 Artículo: Dealing with difficult minority labels in imbalanced multilabel data sets, Neurocomputing, 326-327, , 39-53  
FRANCISCO HERRERA TRIGUERO
- 2019 Artículo: REMEDIAL-HwR: Tackling multilabel imbalance through label decoupling and data resampling hybridization, Neurocomputing, 326-327, , 110-122  
FRANCISCO HERRERA TRIGUERO
- 2019 Artículo: E2SAM: Evolutionary Ensemble of Sentiment Analysis Methods for Domain Adaptation, Information Sciences, 480, April 2019, 273-286  
ANA VALDIVIA GARCÍA  
EUGENIO MARTÍNEZ CÁMARA  
FRANCISCO HERRERA TRIGUERO
- 2019 Artículo: AMIDST: A Java toolbox for scalable probabilistic machine learning, Knowledge-Based Systems, 163, , 595-597  
RAFAEL CABAÑAS DE PAZ
- 2019 Artículo: Alternative Ranking-Based Clustering and Reliability Index-Based Consensus Reaching Process for Hesitant Fuzzy Large Scale Group Decision Making, IEEE Transactions on Fuzzy Systems, 27, 1, 159-171  
FRANCISCO HERRERA TRIGUERO
- 2019 Artículo: Consensus Building With Individual Consistency Control in Group Decision Making, IEEE Transactions on Fuzzy Systems, 27, 2, 319-332  
FRANCISCO HERRERA TRIGUERO  
ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ
- 2019 Artículo: An approximation to solve regression problems with a genetic fuzzy rule ordinal algorithm, Applied Soft Computing, 1, 78, 13-28  
ANTONIO GONZALEZ MUÑOZ  
FRANCISCO GABRIEL RAUL PEREZ RODRIGUEZ
- 2019 Artículo: Production trends, collaboration, and main topics of the Integrative & Complementary Oncology research area: A bibliometric analysis, Integrative Cancer Therapies, , , in press-  
ENRIQUE HERRERA VIEDMA
- 2019 Artículo: Variational EM Method for Blur Estimation using the Spike-and-Slab Image Prior, Digital Signal Processing, 88, , 116-129  
JAVIER MATEOS  
JUAN GABRIEL SERRA PÉREZ  
RAFAEL MOLINA SORIANO
- 2019 Artículo: Do the best papers have the highest probability of being cited?, Scientometrics, 118, 3, 885-890  
JOAQUIN FERNANDEZ VALDIVIA  
JOSÉ ANTONIO GARCÍA SORIA  
ROSA MARÍA RODRÍGUEZ SÁNCHEZ
- 2019 Artículo: Smartphone-based systems for physical rehabilitation applications: A systematic review, Assistive Technology, , , -  
ENRIQUE HERRERA VIEDMA
- 2019 Artículo: Learning from crowds with variational Gaussian processes, Pattern recognition, 88, , 238-  
PABLO MORALES ÁLVAREZ  
RAFAEL MOLINA SORIANO
- 2019 Artículo: Deep recurrent neural network for geographical entities disambiguation on social media

- data, Knowledge-Based Systems, 173, , 117-127  
ANA VALDIVIA GARCÍA  
EUGENIO MARTÍNEZ CÁMARA  
FRANCISCO HERRERA TRIGUERO  
SIHAM TABIK
- 2019 Artículo: Análisis comparativo de las características computacionales en los sistemas modernos de análisis de sentimiento para el español, Procesamiento del Lenguaje Natural, 62, , 69-76  
EUGENIO MARTÍNEZ CÁMARA
- 2019 Artículo: TASS 2018: The Strength of Deep Learning in Language Understanding Tasks, Procesamiento del Lenguaje Natural, 62, , 77-84  
EUGENIO MARTÍNEZ CÁMARA
- 2019 Artículo: InferPy: Probabilistic modeling with Tensorflow made easy, Knowledge-Based Systems, 168, , 25-27  
RAFAEL CABAÑAS DE PAZ
- 2019 Artículo: A Multi-Objective Evolutionary Fuzzy System to Obtain a Broad and Accurate Set of Solutions in Intrusion Detection Systems, Soft Computing, 23, 4, 1321-1336  
ALBERTO FERNÁNDEZ HILARIO  
FRANCISCO HERRERA TRIGUERO
- 2019 Artículo: A Meta-Hierarchical Rule Decision System to Design Robust Fuzzy Classifiers Based on Data Complexity, IEEE Transactions on Fuzzy Systems, 27, 4, 701-715  
ALBERTO FERNÁNDEZ HILARIO  
FRANCISCO HERRERA TRIGUERO
- 2019 Artículo: Evolutionary Fuzzy Systems for Explainable Artificial Intelligence: Why, When, What for, and Where to?, IEEE Computational Intelligence Magazine, 14, 1, 69-81  
ALBERTO FERNÁNDEZ HILARIO  
FRANCISCO HERRERA TRIGUERO  
OSCAR CORDÓN GARCÍA
- 2019 Artículo: An automatic procedure to create fuzzy ontologies from users opinions using sentiment analysis procedures and multi-granular fuzzy linguistic modelling methods, Information Sciences - Elsevier, 476, , 222-238  
ENRIQUE HERRERA VIEDMA  
FRANCISCO JAVIER CABRERIZO LORITE  
JUAN ANTONIO MORENTE MOLINERA
- 2019 Artículo: Dealing with group decision making environments that have a high amount of alternatives using card-sorting techniques, Expert Systems With Applications, 127, , 187-198  
ENRIQUE HERRERA VIEDMA  
JUAN ANTONIO MORENTE MOLINERA
- 2018 Artículo: Peterson-Gorenstein-Zierler algorithm for skew RS codes, Linear and Multilinear Algebra, 66, 3, 469-487  
GABRIEL NAVARRO GARULO
- 2018 Artículo: RANK REVERSAL AND THE VIKOR METHOD: AN EMPIRICAL EVALUATION, International Journal of Information Technology and Decision Making, 17, 2, -  
DAVID ALEJANDRO PELTA MOCHCOVSKY  
MARIA TERESA LAMATA JIMENEZ
- 2018 Artículo: Opinion Dynamics-Based Group Recommender Systems, IEEE transactions on systems, man, and cybernetics: Systems, 48, 12, 2394-2406  
JORGE CASTRO GALLARDO
- 2018 Artículo: Specificity Measures and Referential Success, IEEE Transactions on Fuzzy Systems, 26, 2, 859-868  
DANIEL SANCHEZ FERNANDEZ  
NICOLÁS MARÍN RUIZ
- 2018 Artículo: Text Mining: Techniques, Applications, and Challenges, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 26, 4, 553-582  
DANIEL SANCHEZ FERNANDEZ  
IGNACIO JOSÉ BLANCO MEDINA  
MARÍA JOSÉ MARTÍN BAUTISTA
- 2018 Artículo: moGrams: a network-based methodology for visualizing the set of non-dominated solutions in multiobjective optimization, IEEE Transactions on Cybernetics, 48, 2, 474-485  
OSCAR CORDÓN GARCÍA
- 2018 Artículo: Consensus building for the heterogeneous large-scale GDM with the individual concerns and satisfactions, IEEE Transactions on Fuzzy Systems, 26, 2, 884-898  
ENRIQUE HERRERA VIEDMA
- 2018 Artículo: Leveraging localized social media insights for early warning systems, International Journal

- of Information Technology and Decision Making, 17, 1, 357-385  
ENRIQUE HERRERA VIEDMA
- 2018 Artículo: Automatic Handgun Detection Alarm in Videos Using Deep Learning, Neurocomputing, 275, , 66-72  
FRANCISCO HERRERA TRIGUERO  
SIHAM TABIK
  - 2018 Artículo: Teranga Go!: Carpooling Collaborative Consumption Community with multi-criteria hesitant fuzzy linguistic term set opinions to build confidence and trust, Applied Soft Computing, 17, , 941-952  
FRANCISCO HERRERA TRIGUERO
  - 2018 Artículo: PRoA: an Intelligent Multi-Criteria Personalized Route Assistant, Engineering Applications Of Artificial Intelligence, 72, , 162-169  
DAVID ALEJANDRO PELTA MOCHCOVSKY  
JOSE LUIS VERDEGAY GALDEANO  
MARINA TORRES ANAYA
  - 2018 Artículo: Relational Representation of Uncertain and Imprecise Time Assessments: An Application to Artworks Dating, International Journal of Intelligent Systems, 33, , 1109-1130  
JUAN MIGUEL MEDINA RODRIGUEZ  
MARÍA AMPARO VILA MIRANDA  
OLGA PONS CAPOTE
  - 2018 Artículo: AdaptiveCC4.5: Credal C4.5 with a rough class noise estimator, Expert Systems With Applications, 92, Supplement C, 363-379  
CARLOS JAVIER MANTAS RUIZ  
FRANCISCO JAVIER GARCÍA CASTELLANO  
JOAQUÍN ABELLÁN MULERO
  - 2018 Artículo: Hartmann-Tzeng bound and skew cyclic codes of designed Hamming distance, Finite Fields and Their Applications, 50, , 84-112  
GABRIEL NAVARRO GARULO
  - 2018 Artículo: Perception-based fuzzy partitions for visual texture modelling, Fuzzy Sets and Systems, 337, 1, 1-24  
JESÚS CHAMORRO MARTÍNEZ
  - 2018 Artículo: A practical tutorial on autoencoders for nonlinear feature fusion: Taxonomy, models, software and guidelines, Information Fusion, 44, , 78-96  
FRANCISCO DAVID CHARTE LUQUE  
FRANCISCO HERRERA TRIGUERO  
SALVADOR GARCÍA LÓPEZ
  - 2018 Artículo: Mining association rules on BigData through MapReduce genetic programming, Integrated Computer-Aided Engineering, 25, 1, 31-48  
FRANCISCO HERRERA TRIGUERO
  - 2018 Artículo: On the selection of the correct number of terms for profile construction: Theoretical and empirical analysis, Information Sciences, 430-431, , 142-162  
JUAN FRANCISCO HUETE GUADIX  
JUAN MANUEL FERNÁNDEZ LUNA  
LUIS MIGUEL DE CAMPOS IBAÑEZ
  - 2018 Artículo: Positive unlabeled learning for building recommender systems in a parliamentary setting, Information Sciences, 433-434, , 221-232  
JUAN FRANCISCO HUETE GUADIX  
JUAN MANUEL FERNÁNDEZ LUNA  
LUIS MIGUEL DE CAMPOS IBAÑEZ  
LUIS REDONDO EXPÓSITO
  - 2018 Artículo: The democratization of Deep Learning in TASS 2017, Procesamiento del Lenguaje Natural, 60, , 37-44  
EUGENIO MARTÍNEZ CÁMARA
  - 2018 Artículo: Type-1 OWA Unbalanced Fuzzy Linguistic Aggregation Methodology: Application to Eurobonds Credit Risk Evaluation, International Journal of Intelligent Systems, 33, 5, 1071-1088  
ENRIQUE HERRERA VIEDMA
  - 2018 Artículo: A unifying analysis for the supervised descriptive rule discovery via the weighted relative accuracy, Knowledge-Based Systems, 139, , 89-100  
FRANCISCO HERRERA TRIGUERO
  - 2018 Artículo: A survey of multilingual humantagged short message datasets for sentiment analysis tasks, Soft Computing, 22, 24, 8227-8242  
ANTONIO GABRIEL LÓPEZ HERRERA
  - 2018 Artículo: Evolutionary data mining and applications: A revision on the most cited papers from the last 10 years (2007-2017), Wiley Interdisciplinary Reviews. Data Mining and Knowledge Discovery, 8, 2, 1-17

JESÚS ALCALÁ FERNÁNDEZ

RAFAEL ALCALÁ FERNÁNDEZ

- 2018 Artículo: MULTIVARIATE ANALYSIS AND EXTRACTION OF PARAMETERS IN RESISTIVE RAMS USING THE QUANTUM POINT CONTACT MODEL, Journal of Applied Physics, 123, 014501, -

ROCIO CELESTE ROMERO ZALIZ

- 2018 Artículo: Adaptive contents for Interactive TV guided by machine learning based on predictive sentiment analysis of data, Soft Computing, 22, 8, 1-22

ENRIQUE HERRERA VIEDMA

- 2018 Editorial: Hesitant fuzzy information for information fusion in decision making, Information Fusion, 42, , 62-63

ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ

- 2018 Artículo: A fuzzy approach for natural noise management in group recommender systems, Expert Systems With Applications, 94, , 237-249

JORGE CASTRO GALLARDO

- 2018 Artículo: Exploring Consistency for Hesitant Preference Relations in Decision Making: Discussing Concepts, Meaning and Taxonomy, Journal of Multiple-Valued Logic and Soft Computing, 30, 2-3, 129-154

FRANCISCO HERRERA TRIGUERO

ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ

- 2018 Artículo: Consistency of hesitant fuzzy linguistic preference relations: An interval consistency index, Information Sciences, 432, , 347-361

FRANCISCO HERRERA TRIGUERO

ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ

- 2018 Artículo: A dynamic multi-attribute group emergency decision making method considering experts' hesitation, International Journal of Computational Intelligence Systems, 11, , 163-182

ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ

- 2018 Artículo: Increasing diversity in Random Forest learning algorithm via imprecise probabilities, Expert Systems With Applications, 97, , 228-243

CARLOS JAVIER MANTAS RUIZ

FRANCISCO JAVIER GARCÍA CASTELLANO

JOAQUÍN ABELLÁN MULERO

- 2018 Artículo: A robust and efficient method for skull-face overlay in computerized craniofacial superimposition, IEEE Transactions on Information Forensics and Security, 13, 8, 1960-1974

ANDREA VALSECCHI

OSCAR CORDÓN GARCÍA

- 2018 Artículo: Modeling skull-face anatomical/morphological correspondence for craniofacial superimposition-based identification, IEEE Transactions on Information Forensics and Security, , , -

CARMEN CAMPOMANES ALVAREZ

OSCAR CORDÓN GARCÍA

ÓSCAR IBÁÑEZ PANIZO

- 2018 Artículo: Image super-resolution for outdoor digital forensics. Usability and legal aspects, Computers in Industry, 98, , 34-47

JAVIER MATEOS

RAFAEL MOLINA SORIANO

- 2018 Artículo: Using Deep Neural Networks for Inverse Problems in Imaging, IEEE Signal Processing Magazine, 35, 1, 20-36

RAFAEL MOLINA SORIANO

- 2018 Artículo: Remote Sensing Image Classification with Large Scale Gaussian Processes, IEEE Transactions on Geoscience and Remote Sensing, 56, 2, 1103-1114

PABLO MORALES ÁLVAREZ

RAFAEL MOLINA SORIANO

- 2018 Artículo: Detection and Localization of Concealed Objects in Passive Millimeter Images, Engineering Applications Of Artificial Intelligence, 67, , 81-90

NICOLÁS PÉREZ DE LA BLANCA CAPILLA

RAFAEL MOLINA SORIANO

SANTIAGO LÓPEZ TAPIA

- 2018 Artículo: Tips, guidelines and tools for managing multi-label datasets: The mldr.datasets R package and the Cometa data repository, Neurocomputing, 289, , 68-85

FRANCISCO DAVID CHARTE LUQUE

FRANCISCO HERRERA TRIGUERO

- 2018 Artículo: A comparative study on consensus measures in group decision making, International Journal of Intelligent Systems, 33, 8, 1624-1638

ENRIQUE HERRERA VIEDMA

- 2018 Artículo: Quantifying the emotional impact of events on locations with social media, Knowledge-Based Systems, 146, , 44-57  
ENRIQUE HERRERA VIEDMA
- 2018 Artículo: An analysis of consensus approaches based on different concepts of coincidence, Journal of Intelligent & Fuzzy Systems, 34, 4, 2247-2259  
ENRIQUE HERRERA VIEDMA
- 2018 Artículo: MRQAR: a generic MapReduce framework to discover Quantitative Association Rules in Big Data problems, Knowledge-Based Systems, 153, , 176-192  
DIEGO JESÚS GARCÍA GIL  
FRANCISCO HERRERA TRIGUERO  
JESÚS ALCALÁ FERNÁNDEZ
- 2018 Artículo: Measuring and Exploiting the Impact of Exhibition Scheduling on Museum Attendance, Manufacturing and Service Operations Management, , , -  
ANA VALDIVIA GARCÍA
- 2018 Artículo: Consensus Vote Models for Detecting and Filtering Neutrality in Sentiment Analysis, Information Fusion, 44, , 126-135  
ANA VALDIVIA GARCÍA  
FRANCISCO HERRERA TRIGUERO
- 2018 Artículo: Analyzing the performance of classical consensus models in largescale group decision making: A comparative study, Applied Soft Computing, 67, , 677-690  
ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ
- 2018 Artículo: Embeddings between lattices of fuzzy sets: an application of closed-valued fuzzy sets, Fuzzy Sets and Systems, 352, , 56-72  
GABRIEL NAVARRO GARULO
- 2018 Artículo: Personalized individual semantics based on consistency in hesitant linguistic group decision making with comparative linguistic expressions, Knowledge-Based Systems, 145, , 156-165  
FRANCISCO HERRERA TRIGUERO  
ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ
- 2018 Artículo: Building a contextual dimension for OLAP using textual data from social networks, Expert Systems With Applications, 93, , 118-133  
JESÚS ROQUE CAMPAÑA GÓMEZ  
MARÍA AMPARO VILA MIRANDA  
MARÍA JOSÉ MARTÍN BAUTISTA
- 2018 Artículo: An ontology-based framework for automatic topic detection in multilingual environments, International Journal of Intelligent Systems, 33, 7, 1459-1475  
JESÚS ROQUE CAMPAÑA GÓMEZ  
MARÍA AMPARO VILA MIRANDA  
MARÍA JOSÉ MARTÍN BAUTISTA
- 2018 Artículo: Energy Consumption Forecasting based on Elman Neural Network with Evolutionary Optimization, Expert Systems With Applications, 92, , 380-389  
LUIS GONZAGA BACA RUIZ  
MANUEL PEGALAJAR CUÉLLAR  
MARIA DEL CARMEN PEGALAJAR JIMENEZ
- 2018 Artículo: Methodology for integrated fuel lattice and fuel load optimization using population-based metaheuristics and decision trees, Progress in Nuclear Energy, 104, , 264-270  
DAVID ALEJANDRO PELTA MOCHCOVSKY
- 2018 Artículo: Prioritization of the launch of ICT products and services through linguistic multi-criteria decision-making, Technological and economic development of economy (Spausdinta), 24, 3, 1231-1257  
ENRIQUE HERRERA VIEDMA
- 2018 Artículo: A tuning approach for iterative multiple 3d stencil pipeline on GPUs: Anisotropic Nonlinear Diffusion algorithm as case study, Journal of Supercomputing, 74, 4, 1580-1608  
SIHAM TABIK
- 2018 Artículo: Surveying Alignment-free Features for Ortholog Detection in Related Yeast Proteomes by using Supervised Big Data Classifiers, BMC Bioinformatics, 19, 166, 1-17  
ALBERTO FERNÁNDEZ HILARIO  
FRANCISCO HERRERA TRIGUERO
- 2018 Artículo: SMOTE for Learning from Imbalanced Data: Progress and Challenges. Marking the 15-year Anniversary, Journal of Artificial Intelligence Research, 61, , 863-905  
ALBERTO FERNÁNDEZ HILARIO  
FRANCISCO HERRERA TRIGUERO  
SALVADOR GARCÍA LÓPEZ
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- 2018 Learning from Imbalanced Datasets: Berlin; Heidelberg: Springer., , 2018, 978-3-319-98074-4

FRANCISCO HERRERA TRIGUERO

SALVADOR GARCÍA LÓPEZ

ALBERTO FERNÁNDEZ HILARIO

#### Capítulos de libros (con ISBN)

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ENRIQUE HERRERA VIEDMA

ANTONIO GABRIEL LÓPEZ HERRERA

- 2019 Titulo Capítulo: Dual skew codes from annihilators: Transpose Hamming ring extensions, Titulo Libro: Rings, Modules and Codes: , , 2019, 978-1-4704-4104-3

GABRIEL NAVARRO GARULO

- 2018 Titulo Capítulo: A Feedback Mechanism Based on Granular Computing to Improve Consensus in GDM, Titulo Libro: Soft Computing Applications for Group Decision-making and Consensus Modeling. Studies in Fuzziness and Soft Computing: Springer International Publishing Switzerland, Suiza, 2018, 978-3-319-60206-6

ENRIQUE HERRERA VIEDMA

FRANCISCO JAVIER CABRERIZO LORITE

- 2018 Titulo Capítulo: Evolutionary Fuzzy Systems: A Case Study for Intrusion Detection Systems, Titulo Libro: Evolutionary and Swarm Intelligence Algorithms: Springer, , 2018,

ALBERTO FERNÁNDEZ HILARIO

FRANCISCO HERRERA TRIGUERO

- 2018 Titulo Capítulo: The Use of Fuzzy Linguistic Information and Fuzzy Delphi Method to Validate by Consensus a Questionnaire in a Blended-Learning Environment, Titulo Libro: Information Processing and Management of Uncertainty in Knowledge-Based Systems. Applications: Springer, , 2018,

FRANCISCO HERRERA TRIGUERO

- 2018 Titulo Capítulo: Sobre pertinencia, fortalecimiento y sostenibilidad de los postgrados, Titulo Libro: Universidad en el Espacio Iberoamericano: propuestas de futuro para la vinculación universidad-entorno y la promoción del posgrado: Editorial Universidad de Granada, Granada (España), 2018, 978-84-338-6224-2

JOSE LUIS VERDEGAY GALDEANO

- 2018 Titulo Capítulo: Fuzzy Multi-criteria Decision Making Methods Applied to Usability Software Assessment: An Annotated Bibliography, Titulo Libro: Complex Systems: Solutions and Challenges in Economics, Management and Engineering. Studies in Systems, Decision and Control, vol 125. C. Berger-Vachon, A. Gil Lafuente, J. Kacprzyk, Y. Kondratenko, J. Merigó and C. Morabito (Eds): Springer, Nature, , 2018, 978-3-319-69988-2

JOSE LUIS VERDEGAY GALDEANO

CARLOS ALBERTO CRUZ CORONA

- 2018 Titulo Capítulo: On New Frameworks for Decision Making and Optimization, Titulo Libro: The

- Mathematics of the Uncertain. A Tribute to Pedro Gil. Eduardo, Eva, Juan y M<sup>a</sup> Ángeles Gil (Eds.).  
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- MARIA TERESA LAMATA JIMENEZ  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Titulo Capítulo: MOLP Approach for Solving Transportation Problems with Intuitionistic Fuzzy Costs, Titulo Libro: Information Processing and Management of Uncertainty in Knowledge-Based Systems: Applications. Communications in Computer and Information Science 855. J. Medina, M. Ojeda-Aciego, J.L. Verdegay, I. Perfilieva, B. Bouchon-Meunier and R.R. Yager (Eds.): Springer International Publishing AG, part of Springer Nature, , 2018, 978-3-319-91478-5
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DAVID ALEJANDRO PELTA MOCHCOVSKY
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MARINA TORRES ANAYA  
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- JOSE LUIS VERDEGAY GALDEANO  
MARIA TERESA LAMATA JIMENEZ  
DAVID ALEJANDRO PELTA MOCHCOVSKY
- 2018 Titulo Capítulo: Metodología de desarrollo de competencias y aprendizaje basado en proyectos en un entorno de ciudades inteligentes mediante internet de las cosas, Titulo Libro: TRANSFORMING EDUCATION FOR A CHANGING WORLD: Adaya Press, Eindhoven, The Netherlands, 2018, 978-94-92805-03-4)
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- MARINA TORRES ANAYA  
DAVID ALEJANDRO PELTA MOCHCOVSKY  
NATALIO KRASNOGOR
- 2018 Titulo Capítulo: Una propuesta de adaptación activa de los universitarios noveles en el Campus de Ceuta, Titulo Libro: Investigación y práctica en la educación superior: Educación editora, Ourense, 2018, 978-84-15524-38-0
- JESÚS ROQUE CAMPAÑA GÓMEZ
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- NICOLÁS MARÍN RUIZ  
MARÍA AMPARO VILA MIRANDA



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- 2019 Comunicación en congreso: Reasoning methods in fuzzy rule-based classification systems for big data problems, 4th International Conference on Internet of Things, Big Data and Security, 02/05/2019, Heraclión, Congreso  
FRANCISCO GABRIEL RAUL PEREZ RODRIGUEZ  
ANTONIO GONZALEZ MUÑOZ  
ROCIO CELESTE ROMERO ZALIZ
- 2018 Conferencias impartidas en Congreso: Introduction to concepts of doctoral programme and joint doctoral programme, Quality Assurance Consultation meeting, 05/02/2018, Taskent (Uzbekistán), Congreso  
ANTONIO GONZALEZ MUÑOZ
- 2018 Conferencias impartidas en Congreso: Quality and transparency in the administrative processes for monitoring academic activity of doctoral candidates, Quality Assurance Seminar, 07/02/2018, Taskent (Uzbekistán), Congreso  
ANTONIO GONZALEZ MUÑOZ
- 2018 Ponencia en Congreso: Artificial Neural Networks and Fuzzy Logic for Specifying the Color of an Image using Munsell Soil-Color Charts, International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 11/06/2018, Cádiz, Congreso  
MARIA DEL CARMEN PEGALAJAR JIMENEZ  
LUIS GONZAGA BACA RUIZ  
MIGUEL DELGADO CALVO-FLORES
- 2018 Ponencia en Congreso: A comparison between NARX Neural Networks and Symbolic Regression: An application for energy consumption forecasting, International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 11/06/2018, Cádiz, Congreso  
MIGUEL DELGADO CALVO-FLORES  
MARIA DEL CARMEN PEGALAJAR JIMENEZ  
MANUEL PEGALAJAR CUÉLLAR  
LUIS GONZAGA BACA RUIZ
- 2018 Conferencias impartidas en Curso: A primer on Soft Computing based Decision and Optimization models, PhD AgriChains Workshop ¿Data Intensive Methods for Agriculture?, 08/10/2018, Vila-Real (Portugal), Curso  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Conferencias impartidas en Congreso: Luces y sombras de la formación virtual, VII Taller Internacional: La Virtualización en la Educación Superior, 12/02/2018, Ciudad de La Habana (Cuba), Congreso  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Conferencias impartidas en Congreso: Universidad Digital: ¿Oportunidad o amenaza?, VII Taller Internacional: La Virtualización en la Educación Superior, 12/02/2018, Ciudad de La Habana (Cuba), Congreso  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Conferencias impartidas en Congreso: Buenas prácticas para la formación doctoral. Conferencia Invitada, XIV Taller Internacional: Junta Consultiva sobre el Postgrado en Iberoamérica, 13/02/2018, La Habana (Cuba), Congreso  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Conferencias impartidas en Congreso: Estrategias para la Sostenibilidad de los Posgrados Virtuales. Conferencia Plenaria, XIV Taller Internacional: Junta Consultiva sobre el Postgrado en Iberoamérica, 13/02/2018, La Habana (Cuba), Congreso  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Conferencias impartidas en Seminario: Problemas de Optimización como problemas de decisión, Seminario de la Facultad de Matemática y Computación de la Universidad de La Habana, 14/02/2018, La Habana (Cuba), Seminario  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Conferencias impartidas en Curso: Información y Decisión (¿Cómo salvó Indiana Jones a su padre?). Conferencia impartida dentro del curso: Información y Caos, Información y Caos, 27/04/2018, Granada (España), Curso  
JOSE LUIS VERDEGAY GALDEANO
- 2018 Conferencias impartidas en Congreso: On Decision and Optimization models and their applications. Conferencia Plenaria del FUZZ-IEEE 2018, IEEE World Congress on Computational Intelligence, 08/07/2018, Rio de Janeiro (Brasil), Congreso  
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MARIA TERESA LAMATA JIMENEZ

JOSE LUIS VERDEGAY GALDEANO

DAVID ALEJANDRO PELTA MOCHCOVSKY

- 2018 Comunicación en congreso: An approach for fault diagnosis using a novel hybrid fuzzy clustering algorithm, IEEE World Congress on Computational Intelligence, 08/07/2018, Rio de Janeiro (Brasil), Congreso

CARLOS ALBERTO CRUZ CORONA

JOSE LUIS VERDEGAY GALDEANO

- 2018 Poster en Congreso: Minimum distance computation of linear codes via genetic algorithms with permutation encoding., The 43rd International Symposium on Symbolic and Algebraic Computation, 16/07/2018, CUNY Graduate Center and Courant Institute/NYU, New York, USA., Congreso

GABRIEL NAVARRO GARULO

- 2018 Comunicación en congreso: Computing Free Distances of Idempotent Convolutional Codes, The 43rd International Symposium on Symbolic and Algebraic Computation, 16/07/2018, CUNY Graduate Center and Courant Institute/NYU, New York, USA., Congreso

GABRIEL NAVARRO GARULO

- 2018 Comunicación en congreso: CÁLCULO APROXIMADO DE LA DISTANCIA MÍNIMA DE UN CÓDIGO LINEAL, XVI ENCUENTRO DE ÁLGEBRA COMPUTACIONAL Y APLICACIONES, 04/07/2018, Zaragoza, España, Congreso

GABRIEL NAVARRO GARULO

- 2018 Comunicación en congreso: Cyclic structures in convolutional codes and free distance, 24th Conference on Applications of Computer Algebra ACA 2018, 18/06/2018, - Santiago de Compostela (A Coruña), España, Congreso

GABRIEL NAVARRO GARULO

- 2018 Ponencia en Congreso: Cyclic convolutional codes, XIV Jornadas de Álgebra No Conmutativa, 13/06/2018, Vigo, Congreso

GABRIEL NAVARRO GARULO

- 2018 Comunicación en congreso: Decoding algorithms for skew RS codes, XIV Jornadas de Álgebra No Conmutativa, 13/06/2018, Vigo, Congreso

GABRIEL NAVARRO GARULO

- 2018 Poster en Congreso: BIOPSIA LARÍNGEA EN PACIENTE DESPIERTO CON ENFERMEDAD ONCOLÓGICA. PRESENTACIÓN DE TRES CASOS CLÍNICOS, XII CONGRESO DE LA SOCIEDAD HISPANO ALEMANA ORL, 13/09/2018, Sevilla, Congreso

ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ

- 2018 Poster en Congreso: ¿CUÁNDO DEJA DE SER RENTABLE REPETIR UNA OEA PARA OBTENER UN RESULTADO CONCLUYENTE EN EL CRIBADO NEONATAL?, XII CONGRESO DE LA SOCIEDAD HISPANO ALEMANA ORL, 13/09/2018, Sevilla, Congreso

ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ

- 2018 Comunicación en congreso: A First Step Towards a General-Purpose Distributed Cyberdefense System, International Conference on Practical Applications of Agents and Multi-Agent Systems, 19/06/2018, - Toledo, España, Congreso

LUIS CASTILLO VIDAL

- 2018 Comunicación en congreso: Indexes for Necessity Queries. Implementation and Performance Evaluation on a Fuzzy Object-Relational Database Management System, IEEE International Conference on Fuzzy Systems, 08/07/2018, Rio de Janeiro, Brazil, Congreso

OLGA PONS CAPOTE

JUAN MIGUEL MEDINA RODRIGUEZ

- 2018 Comunicación en congreso: Credal C4. 5 with Refinement of Parameters, International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 11/06/2018, Cádiz, Congreso

CARLOS JAVIER MANTAS RUIZ

JOAQUÍN ABELLÁN MULERO

SERAFÍN MORAL CALLEJÓN

- 2018 Poster en Jornada: Hybrid technique of Evolutionary Algorithm and Nonlinear Autoregressive Neural Networks for Energy Forecasting, Imperial College Computing Student Workshop, 20/09/2018, AAA. LONDON (ENGLAND), Reino Unido, UK, Jornada

LUIS GONZAGA BACA RUIZ

MARIA DEL CARMEN PEGALAJAR JIMENEZ

MANUEL PEGALAJAR CUÉLLAR

- 2018 Poster en Congreso: Unraveling the role of nitric oxide in seedling growth under cadmium stress, XIV Reunión de Biología Molecular de Plantas, 04/07/2018, - Salamanca, España, Congreso

MARIA CORAL DEL VAL MUÑOZ

- 2018 Poster en Congreso: Identifying key genes dependent on peroxisomal ROS, XIV Reunión de Biología

- Molecular de Plantas, 04/07/2018, - Salamanca, España, Congreso  
MARIA CORAL DEL VAL MUÑOZ
- 2018 Comunicación en congreso: Automation of the Design and Development of Digital Educational Resources for e-Learning in Architectural Graphic Expression, INTED2018: 12th annual International Technology, Education and Development Conference, 05/03/2018, Valencia, Congreso  
ENRIQUE HERRERA VIEDMA
- 2018 Comunicación en congreso: Approximation Models in Robust Optimization Over Time - An Experimental Study, IEEE World Congress on Computational Intelligence, 08/07/2018, Rio de Janeiro (Brasil), Congreso  
DAVID ALEJANDRO PELTA MOCHCOVSKY  
CARLOS ALBERTO CRUZ CORONA
- 2018 Comunicación en congreso: A New Approach for Solving Personalized Routing Problems with Fuzzy Constraints, IEEE World Congress on Computational Intelligence, 08/07/2018, Rio de Janeiro (Brasil), Congreso  
DAVID ALEJANDRO PELTA MOCHCOVSKY  
MARINA TORRES ANAYA  
MARIA TERESA LAMATA JIMENEZ
- 2018 Comunicación en congreso: Fuzzy Association Rules Mining Using Spark, 17th Information Processing and Management of Uncertainty in Knowledge-Based Systems Conference, 11/06/2018, - CÁDIZ, - CÁDIZ, ESPAÑA, Congreso  
MARÍA JOSÉ MARTÍN BAUTISTA  
CARLOS FERNÁNDEZ-BASSO
- 2018 Comunicación en congreso: Nuevo Módulo de Conexión Inalámbrico vía Bluetooth con Arduino en la Librería JFML, XIX Congreso Español sobre Tecnologías y Lógica Fuzzy / Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, GRANADA, PALACIO DE EXPOSICIONES Y CONGRESOS., Congreso  
JESÚS ALCALÁ FERNÁNDEZ
- 2018 Comunicación en congreso: Interoperability for Embedded Systems in JFML Software: An Arduino-based implementation, IEEE World Congress on Computational Intelligence, 08/07/2018, Rio de Janeiro (Brasil), Congreso  
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JESÚS ALCALÁ FERNÁNDEZ
- 2018 Comunicación en congreso: A consensus model for large scale using hesitant information, The 13th International FLINS Conference on Data Science and Knowledge Engineering for Sensing Decision Support (FLINS 2018), 21/08/2018, BELFAST, BELFAST, IRLANDA DEL NORTE, Congreso  
ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ
- 2018 Comunicación en congreso: Improved score based decision making method by using fuzzy soft sets, The 13th International FLINS Conference on Data Science and Knowledge Engineering for Sensing Decision Support (FLINS 2018), 21/08/2018, BELFAST, BELFAST, IRLANDA DEL NORTE, Congreso  
ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ
- 2018 Comunicación en congreso: On group recommendation supported by a minimum cost consensus model, The 13th International FLINS Conference on Data Science and Knowledge Engineering for Sensing Decision Support (FLINS 2018), 21/08/2018, BELFAST, BELFAST, IRLANDA DEL NORTE, Congreso  
JORGE CASTRO GALLARDO
- 2018 Ponencia en Congreso: Mono-modal Medical Image Registration with Coral Reef Optimization, International Conference on Hybrid Artificial Intelligence Systems, 20/06/2018, Oviedo, Spain, Congreso  
ENRIQUE BERMEJO NIEVAS  
OSCAR CORDÓN GARCÍA
- 2018 Comunicación en congreso: Mono-modal Medical Image Registration with Coral Reef Optimization, International Conference on Hybrid Artificial Intelligence Systems, 20/06/2018, Oviedo, Spain, Congreso  
ENRIQUE BERMEJO NIEVAS  
OSCAR CORDÓN GARCÍA
- 2018 Ponencia en Congreso: Registrado de Imagen Médica mediante Algoritmos de Optimización basados en Arrecifes de Coral, XIII Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, 23/10/2018, Granada, Congreso  
ENRIQUE BERMEJO NIEVAS  
OSCAR CORDÓN GARCÍA
- 2018 Ponencia en Congreso: Modelling Mandible Articulation for Skull-Face Overlay in Forensic Identification, XIII Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, 23/10/2018, Granada, Congreso

ENRIQUE BERMEJO NIEVAS

OSCAR CORDÓN GARCÍA

CARMEN CAMPOMANES ALVAREZ

ÓSCAR IBÁÑEZ PANIZO

ANDREA VALSECCHI

- 2018 Conferencia Congreso no publicada: Improving Microbial Strain Design via Multiobjective Optimisation and Decision Making, International Joint Conference on Artificial Intelligence, 13/07/2018, Stockholm, Congreso

MARINA TORRES ANAYA

DAVID ALEJANDRO PELTA MOCHCOVSKY

NATALIO KRASNOGOR

- 2018 Comunicación en congreso: SINAI at IEST 2018: Neural Encoding of Emotional External Knowledge for Emotion Classification,- 2018 Conference on Empirical Methods in Natural Language Processing, 02/11/2018, Bélgica, BELGICA, BRUSELAS, Congreso

EUGENIO MARTÍNEZ CÁMARA

- 2018 Comunicación en congreso: SINAI en TASS 2018: Inserción de Conocimiento Emocional Externo a un Clasificador Lineal de Emociones, XXXIV Congreso Internacional de la Sociedad Española para el Procesamiento del Lenguaje Natural, 18/09/2018, HOSPITAL UNIVERSITARIO VIRGEN DEL ROCÍO, Congreso

EUGENIO MARTÍNEZ CÁMARA

- 2018 Poster en Congreso: EME1 as a predictive biomarker for radiosensitivity in locally advanced rectal cancer, 16th ASEICA International Congress, 06/11/2018, Universidad Politécnica de Valencia, Congreso

CARLOS CANO GUTIERREZ

- 2018 Comunicación en congreso: Comparing two approaches for consensus computation in group decision making problems, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Ponencia en Congreso: Virtual Subconcept Drift Detection in Discrete Data Using Probabilistic Graphical Models, 17th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 11/06/2018, Cádiz, España, Congreso

SERAFÍN MORAL CALLEJÓN

ANDRÉS CANO UTRERA

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MANUEL GÓMEZ OLMEDO

- 2018 Ponencia en Congreso: Virtual Subconcept Drift Detection in Discrete Data Using Probabilistic Graphical Models, 17th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 11/06/2018, Cádiz, España, Congreso

ANDRÉS CANO UTRERA

RAFAEL CABAÑAS DE PAZ

- 2018 Comunicación en congreso: Selecting relevance thresholds to improve a recommender system in a parliamentary setting, International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, 18/09/2018, Sevilla, Congreso

LUIS MIGUEL DE CAMPOS IBAÑEZ

LUIS REDONDO EXPÓSITO

JUAN MANUEL FERNÁNDEZ LUNA

JUAN FRANCISCO HUETE GUADIX

- 2018 Comunicación en congreso: Content-based recommendation for academic expert finding, 5th Spanish Conference on Information Retrieval, 26/06/2018, - Zaragoza, España (Universidad de Zaragoza), Congreso

JUAN MANUEL FERNÁNDEZ LUNA

JUAN FRANCISCO HUETE GUADIX

LUIS MIGUEL DE CAMPOS IBAÑEZ

- 2018 Comunicación en congreso: A practical tutorial on autoencoders for nonlinear feature fusion: Taxonomy, models, software and guidelines, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, España, Congreso

FRANCISCO DAVID CHARTE LUQUE

SALVADOR GARCÍA LÓPEZ

FRANCISCO HERRERA TRIGUERO

- 2018 Comunicación en congreso: Fuzzy Modelling of Local Linearity in Contours, IEEE World Congress on Computational Intelligence, 08/07/2018, Rio de Janeiro (Brasil), Congreso

JESÚS CHAMORRO MARTÍNEZ

ANTONIO GARRIDO CARRILLO

- 2018 Comunicación en congreso: Blind Color Deconvolution of Histopathological Images Using a

- Variational Bayesian Approach,- 2018 25th IEEE International Conference on Image Processing, 07/10/2018, Athens, Greece, Congreso  
RAFAEL MOLINA SORIANO  
JAVIER MATEOS
- 2018 Comunicación en congreso: Fully Automated Blind Color Deconvolution of Histopathological Images, 21st INTERNATIONAL CONFERENCE ON MEDICAL IMAGE COMPUTING & COMPUTER ASSISTED INTERVENTION, 16/09/2018, Granada, España, Congreso  
JAVIER MATEOS  
RAFAEL MOLINA SORIANO
- 2018 Comunicación en congreso: Acelerando la Comparación de Huellas Dactilares basadas en Agrupaciones Deformables de Minucias, Jornadas SARTECO 2018, 12/09/2018, Teruel, España, Congreso  
SIHAM TABIK
- 2018 Comunicación en congreso: A First Step to Accelerating Fingerprint Matching based on Deformable Minutiae Clustering, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso  
SIHAM TABIK
- 2018 Conferencias impartidas en Jornada: Procesamiento de lenguaje natural con NLTK, Jornadas de Software Libre, 27/09/2018, Granada, Jornada  
ROCIO CELESTE ROMERO ZALIZ
- 2018 Comunicación en congreso: A Pareto Based Ensemble with Feature and Instance Selection for Learning from Multi-Class Imbalanced Datasets, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso  
FRANCISCO HERRERA TRIGUERO  
ALBERTO FERNÁNDEZ HILARIO
- 2018 Comunicación en congreso: Atipicidad: Medida de calidad clave dentro del descubrimiento de reglas descriptivas supervisadas, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, España, Congreso  
FRANCISCO HERRERA TRIGUERO
- 2018 Ponencia en Congreso: Computational Annotation of Genetic Biomarkers using Topologically Associating Domains, 15th International Conference on Computational Intelligence methods for Bioinformatics and Biostatistics, 06/09/2018, CAPARICA - LISBOA - PORTUGAL, Congreso  
CARMEN NAVARRO LUZÓN  
PAUL LIZARDI  
MICHELA VERBENI  
ARMANDO BLANCO MORON  
CARLOS CANO GUTIERREZ
- 2018 Poster en Jornada: TADdistR: a Tool for Annotation of Genetic Signatures Based on Topologically Associating Domains, XIV Symposium on Bioinformatics, 14/11/2018, Granada, Congreso  
MICHELA VERBENI  
CARLOS CANO GUTIERREZ  
CARMEN NAVARRO LUZÓN  
ARMANDO BLANCO MORON  
PAUL LIZARDI
- 2018 Comunicación en congreso: Toma de decisiones a gran escala usando evaluación parcial de criterios. Caso aplicado a evaluación de conferencias, XIX Congreso Español sobre Tecnologías y Lógica Fuzzy / Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, GRANADA, PALACIO DE EXPOSICIONES Y CONGRESOS., Congreso  
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- 2018 Comunicación en congreso: Strain Design as Multiobjective Network Interdiction Problem: A Preliminary Approach, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, España, Congreso  
NATALIO KRASNOGOR  
DAVID ALEJANDRO PELTA MOCHCOVSKY  
MARINA TORRES ANAYA
- 2018 Comunicación en congreso: Detección del Fracaso Académico y Evaluación de la Práctica Docente mediante la Comunicación Automatizada con un Chatbot, XIX Congreso Español sobre Tecnologías y Lógica Fuzzy / Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, GRANADA, PALACIO DE EXPOSICIONES Y CONGRESOS., Congreso  
FRANCISCO HERRERA TRIGUERO
- 2018 Comunicación en congreso: Fuzzy linguistic ranking model for Web Accessibility Test tools, XIX Congreso Español sobre Tecnologías y Lógica Fuzzy / Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, GRANADA, PALACIO DE EXPOSICIONES Y CONGRESOS.,

Congreso

FRANCISCO HERRERA TRIGUERO

- 2018 Comunicación en congreso: Modelo Lingüístico Difuso de Evaluación de la Calidad de la Formación Superior en Entornos Metodológicos de Flipped Classroom y M-learning, Doctoral Consortium - XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso  
FRANCISCO HERRERA TRIGUERO

- 2018 Comunicación en congreso: Modelo de toma de decisiones lingüística a gran escala aplicado a la evaluación de proyectos de ciencia ciudadana, Doctoral Consortium - XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso  
FRANCISCO HERRERA TRIGUERO

- 2018 Comunicación en congreso: MonuMAI: una app para incrementar el valor social del patrimonio-arquitectónico andaluz, Competición de Apps basadas en Inteligencia Artificial. XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso

SIHAM TABIK

- 2018 Comunicación en congreso: SHADE con una Búsqueda Local Iterativa para Optimización de Alta Dimensionalidad, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, España, Congreso

FRANCISCO HERRERA TRIGUERO

- 2018 Comunicación en congreso: SHADE with Iterative Local Search for Large-Scale Global Optimization,

- 2018 IEEE Congress on Evolutionary Computation (CEC), 08/07/2018, Rio de Janeiro, Brazil, Congreso  
FRANCISCO HERRERA TRIGUERO

- 2018 Comunicación en congreso: Using the AHP Model to Improve the Measurement of Satisfaction in the ICT Sector, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Using Information Extracted from Microblogs in Order to Palliate the Cold Start Problem in Recommender Systems, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Adapting Recommender Systems to the New Data Privacy Regulations, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: An Embeddings Based Fuzzy Linguistics Supported Model to Measure the Contextual Bias in Sentiment Polarity, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Análisis de distintas propuestas de sistemas de recomendaciones lingüísticos difusos para personalizar información en bibliotecas digitales, XIX Congreso Español sobre Tecnologías y Lógica Fuzzy, 23/10/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

FRANCISCO JAVIER CABRERIZO LORITE

- 2018 Comunicación en congreso: A PageRank-Based Method to Extract Fuzzy Expressions as Features in Supervised Classification Problems, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso

JUAN LUIS CASTRO PEÑA

- 2018 Comunicación en congreso: STMC: Semantic Tag Medical Concept Using Word2Vec Representation, 31st IEEE International Symposium on Computer-Based Medical Systems, 18/06/2018, Karlstad, Sweden, Congreso

JUAN LUIS CASTRO PEÑA

- 2018 Comunicación en congreso: Intelligent m-health App to Evaluate the Elderly Physical Condition, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Predicting Physical Activity and Functional Fitness Levels Through Inertial Signals and EMD-Based Features in Older Adult, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Uso de Expresiones Lingüísticas Comparativas en AFRYCA 3.0, XIX Congreso Español sobre Tecnologías y Lógica Fuzzy / Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, GRANADA, PALACIO DE EXPOSICIONES Y CONGRESOS., Congreso

ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ

- 2018 Comunicación en congreso: Un modelo de consenso para toma de decisiones en grupo a gran escala usando conjuntos difusos dudosos, XIX Congreso Español sobre Tecnologías y Lógica Fuzzy / Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, GRANADA, PALACIO DE EXPOSICIONES Y CONGRESOS., Congreso  
ROSA M<sup>a</sup> RODRÍGUEZ DOMÍNGUEZ
- 2018 Comunicación en congreso: A Linear Programming Based Approach for Evaluating Interval-valued Influence Diagrams, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial (CAEPIA), 23/10/2018, Granada, Congreso  
MANUEL GÓMEZ OLMEDO  
ANDRÉS CANO UTRERA  
RAFAEL CABAÑAS DE PAZ
- 2018 Comunicación en congreso: Metaheurísticas constructivas para Car Sequencing Problem con flotas de vehículos especiales, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso  
IGNACIO MOYA SEÑAS  
OSCAR CORDÓN GARCÍA
- 2018 Comunicación en congreso: Metaheurísticas para calibración de modelos basados en agentes en dinámicas de adopción premium, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso  
IGNACIO MOYA SEÑAS  
OSCAR CORDÓN GARCÍA
- 2018 Comunicación en congreso: Resumiendo Opiniones Negativas con Deep Learning y Reglas Descriptivas, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, Congreso  
ANA VALDIVIA GARCÍA  
EUGENIO MARTÍNEZ CÁMARA  
FRANCISCO HERRERA TRIGUERO
- 2018 Comunicación en Jornada: Una forma particular de hacer MOOCs, La Iniciativa MOOCs UGR, VIII Jornadas Internacionales de Campus Virtuales, 16/04/2018, : Universidad de La Laguna, Canarias, Jornada  
IGNACIO JOSÉ BLANCO MEDINA  
OSCAR CORDÓN GARCÍA
- 2018 Conferencias impartidas en Seminario: The International Virtual Classroom, Beyond Mobility: Internationalization at the UGR Today, 23/04/2018, Granada, Seminario  
IGNACIO JOSÉ BLANCO MEDINA
- 2018 Comunicación en taller de trabajo: SCI2S at TASS 2018: Emotion Classification with Recurrent Neural Networks, TASS- 2018 Workshop on Semantic Analysis at SEPLN, 18/09/2018, Sevilla, Taller de trabajo  
EUGENIO MARTÍNEZ CÁMARA  
FRANCISCO HERRERA TRIGUERO
- 2018 Comunicación en taller de trabajo: Overview of TASS 2018: Opinions, health and emotions, TASS- 2018 Workshop on Semantic Analysis at SEPLN, 18/09/2018, Sevilla, Taller de trabajo  
EUGENIO MARTÍNEZ CÁMARA
- 2018 Conferencias impartidas en Congreso: Data Science for Efficient Building Energy Management, Artificial Intelligence International Conference, 21/11/2018, Barcelona, Congreso  
JUAN GÓMEZ ROMERO
- 2018 Poster en Congreso: GASTRO-MINER Una Herramienta Basada en la Nube para el Análisis de Sentimientos en Opiniones sobre Restaurantes en TripAdvisor: Caso de Estudio sobre Restaurantes de la Provincia de Granada, Workshp en Ciencia de Datos, 22/10/2018, Asunción (Paraguay), Congreso  
ANTONIO GABRIEL LÓPEZ HERRERA
- 2018 Comunicación en congreso: Fuzzy Methodology for Recommendation Based Sentiment Analysis and Content Tools, The 17th International Conference on Intelligent Software Methodologies, Tools, and Techniques, 26/09/2018, Granada, Congreso  
ANTONIO GABRIEL LÓPEZ HERRERA
- 2018 Comunicación en congreso: Constructing bibliometric networks from Spanish doctoral Theses, 19th International Conference on Intelligent Data Engineering and Automated Learning, 21/11/2018, Madrid, Congreso  
ANTONIO GABRIEL LÓPEZ HERRERA
- 2018 Comunicación en congreso: Identifying conflicts of interest of reviewers using bibliometric networks: a case study on Cloud Computing research area, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial, 23/10/2018, Granada, España, Congreso  
ANTONIO GABRIEL LÓPEZ HERRERA
- 2018 Comunicación en congreso: Industry 4.0: a perspective based on bibliometric analysis, 6th

International Conference on Information Technology and Quantitative Management, Procedia Computer Science 139, 20/10/2018, OMAHA, NEBRASKA, USA, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Identifying conflicts of interest of reviewers using authors bibliometric networks, XVIII Conferencia de la Asociación Española para la Inteligencia Artificial (CAEPIA). I Workshop en Ciencia de Datos en Redes Sociales, 23/10/2018, Granada, España, Congreso

ANTONIO GABRIEL LÓPEZ HERRERA

- 2018 Comunicación en congreso: Co-words Analysis of the Last Ten Years of the International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 17th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 11/06/2018, Cádiz, España, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Hesitant fuzzy sets: A bibliometric study, 5th International Conference on Control, Decision and Information Technologies, 10/04/2018, Thessaloniki, Greece, Congreso

ENRIQUE HERRERA VIEDMA

FRANCISCO JAVIER CABRERIZO LORITE

- 2018 Comunicación en congreso: A New Approach for Implicit Citation Extraction, 19th International Conference on Intelligent Data Engineering and Automated Learning, 21/11/2018, Madrid, Congreso

ENRIQUE HERRERA VIEDMA

- 2018 Comunicación en congreso: Hard Exudate Detection using Local Texture Analysis and Gaussian Processes, 15th International Conference on Image Analysis and Recognition, 27/06/2018, Póvoa de Varzim, Portugal, Congreso

RAFAEL MOLINA SORIANO

- 2018 Comunicación en congreso: Improving Fuzzy Rule Based Classification Systems in Big Data via Support-based Filtering, IEEE World Congress on Computational Intelligence, 08/07/2018, Rio de Janeiro (Brasil), Congreso

ALBERTO FERNÁNDEZ HILARIO