

The role of the AIoT and deepint.net

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Key Note

Abstract

AIoT is a term, also known as intelligence of things, which refers to the new wave of the future of technology that combines two major platforms, very present in today's market: Artificial Intelligence (AI) and the Internet of things (IoT). As IoT devices will generate large amounts of data, Artificial Intelligence is going to be functionally necessary to deal with these huge volumes if we are to have any chance of making sense of the data. This whole process will be called connected intelligence. To take this step forward and definitively enter the era of Intelligence of Things, we will need to enable to a greater or lesser part these cognitive and executive capacities towards objects. To do this, we are going to talk more and more about the concept of Edge Computing (or "edge computing"), which is nothing more than the ability to process data, analyze situations, evaluate possible scenarios and make decisions from the object itself and not from a server hundreds or thousands of miles away.

The IoT is a concept that refers to a digital interconnection of everyday objects with the Internet. It has its theoretical basis in the addition of sensors and connectivity to any object and, eventually, it can also have its own processing capabilities, although this is not strictly necessary to enter the definition of IoT. On the other hand, Artificial Intelligence is an algorithm nurtured by statistical models that allow "learning" through feedback. What is intended to do with this union is to try to add a cognitive and executive layer to the current functionality of objects in order to provide them with autonomy to analyze situations and make decisions. It should be noted that, after the launch of AIoT, speculation begins about the next step to follow, known as Intelligence of Everything (IoE) or, in other words, the arrival of autonomous systems. Artificial Intelligence revived in the last decade. The need for progress, the growing processing capacity and the low cost of the Cloud have facilitated the development of new, powerful algorithms. The efficiency of these algorithms in Big Data processing, Deep Learning and Convolutional Networks is transforming the way we work and is opening new horizons. Thanks to them, we can now analyse data and obtain unimaginable solutions to today's problems. Nevertheless, our success is not entirely based on algorithms, it also comes from our ability to follow our "gut" when choosing the best combination of algorithms for an intelligent artefact. It's about approaching engineering with a lot of knowledge and tact. This involves the use of both connectionist and symbolic systems, and of having a full understanding of the algorithms used. Moreover, to address today's problems we must work with both historical and real-time data. We must fully comprehend the problem, its time evolution, as well as the relevance and implications of each piece of data, etc. It is also important to consider development time, costs and the ability to create systems that will interact with their environment, will connect with the objects that surround them and will manage the data they obtain in a reliable manner.

In this keynote, the evolution of intelligent computer systems will be examined. The need for human capital will be emphasised, as well as the need to follow one’s “gut instinct” in problem-solving. We will look at the benefits of combining information and knowledge to solve complex problems and will examine how knowledge engineering facilitates the integration of different algorithms. Furthermore, we will analyse the importance of complementary technologies such as IoT and Blockchain in the development of intelligent systems. It will be shown how tools like "Deep Intelligence" make it possible to create computer systems efficiently and effectively. "Smart" infrastructures need to incorporate all added-value resources so they can offer useful services to the society, while reducing costs, ensuring reliability and improving the quality of life of the citizens. The combination of AI with IoT and with blockchain offers a world of possibilities and opportunities.

Deepint.net is an extraordinary tool to construct AIoT products and it will be introduced in this keynote. Deep Intelligence has been designed to help you select optimal AI & Machine Learning algorithms for the analysis of your business’ datasets. This platform can be customized to read any type of data from webs, files, databases, sensors..., it can also stream data in real time if needed. A highly attractive, user-friendly and intuitive visualization environment will guide you in the creation and configuration of algorithms that will analyze your data optimally. The platform makes it possible to create dashboards for better visualization experience, moreover, they can be easily integrated into any other online application. Improve your business decision-making without any expert IT knowledge. Deep Intelligence is a platform for Fintech, IoT, AIoT, Smart Cities, Smart Grids, Biomedical analysis, Logistics, Industry 4.0, etc.

The use of edge platforms or fog computing helps increase efficiency, reduce network latency, improve security and bring intelligence to the edge of the network; close to the sensors, users and to the medium used.

This keynote will present success stories regarding biotechnology, smart cities, industry 4.0, the economy, and others. All these fields require the development of interactive, reliable and secure systems which we are capable of building thanks to current advances. Several use cases of intelligent systems will be presented and it will be analysed how the different processes have been optimized by means of tools that facilitate decision-making.

Industrial Internet of Things (IIoT) A fundamental aspect involved in applications within Industry 4.0 is the Internet of Things (IoT), which emerges as a new milestone in the Internet for that billions of objects are equipped with various types of sensors, connected to the Internet through heterogeneous networks. However, the information that is generally provided to users is based on one-dimensional space, and corresponds mainly to the location where the sensor is located. They will be presented will have related to the different open and interoperable layers that the different IoT architecture schemes, including FIWARE, ETSI or GS1 in the IoT mediation and management layers, as well as standards such as MQTT, LightWeight M2M and OneM2M in the IoT services layer.

IIoT and Edge Computing for monitoring and detecting patterns in Industry 4.0 Smart cities, precision agriculture, home automation, telemetry and smart meters, as well as the

monitoring of remote industrial facilities, are just some examples of telemonitoring of the applications that the more than 26 billion connected IoT devices in the world in 2019 according to IHS Markit. Such quantity of devices generates a huge volume of data that is transferred to infrastructures in the Cloud, implying computation and storage costs in it. In this sense, there is still much to exploit the benefits of Edge Computing to reduce the necessary traffic to the Cloud and maintain operability during potential communication outages with the cloud. Machine Learning and AI Algorithms for Classification Machine Learning techniques include a wide variety of algorithms, among which we can highlight in general: neural networks (deep Neural Networks within the so-called Deep Learning), perceptrons, SVM kernels (Support Vector Machine), decision trees, Case Based Reasoning (CBR), or clustering techniques. Thanks to this type of technique, it is possible to classify a set of input data into a series of output categories. These techniques include the well-known k-means or advanced spectral clustering [1-313].

References

1. Abdullah Talha Kabakus (2019) An Experimental Performance Comparison of Widely Used Face Detection Tools. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 3
2. Adrián Sánchez-Carmona, Sergi Robles, Carlos Borrego (2015) Improving Podcast Distribution on Gwanda using PrivHab: a Multiagent Secure Georouting Protocol. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 4, n. 1
3. Adrián Valera-Román, Diego Mateos-Matilla, Eduardo Oliva-Rubio, Álvaro Paule-Pereda (2019) Multi-Agent Vehicle Share System. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 1
4. Adriana Fernández-Fernández, Cristina Cervelló-Pastor, Leonardo Ochoa-Aday (2016) Energy-Aware Routing in Multiple Domains Software-Defined Networks. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 5, n. 3
5. Akshansh Mishra (2020) Local binary pattern for the evaluation of surface quality of dissimilar friction stir welded ultrafine grained 1050 and 6061-t6 aluminium alloys. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 2
6. Alberto Botana López (2019) Deep Learning in Biometrics: A Survey. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 4
7. Alberto Rivas, Jesús M. Fraile, Pablo Chamoso, Alfonso González-Briones, Sara Rodríguez, Juan M. Corchado: Students Performance Analysis Based on Machine Learning Techniques. LTEC 2019: 428-438
8. Alberto Rivas, Jesús M. Fraile, Pablo Chamoso, Alfonso González-Briones, Inés Sittón, Juan M. Corchado: A Predictive Maintenance Model Using Recurrent Neural Networks. SOCO 2019: 261-270
9. Alberto Rivas, Pablo Chamoso, Alfonso González-Briones, Juan Pavón, Juan M. Corchado: Social Network Recommender System, A Neural Network Approach. IDEAL (2) 2020: 213-222

10. Alberto Rivas, Pablo Chamoso, Alfonso González-Briones, Roberto Casado-Vara, Juan Manuel Corchado (2019) Hybrid job offer recommender system in a social network. *Expert Systems* 36(4)
11. Alda Canito, Daniel Mota, Goreti Marreiros, Juan M. Corchado, Constantino Martins: Contextual Adaptative Interfaces for Industry 4.0. *DCAI (Special Sessions) 2020*: 149-157
12. Alda Canito, Gabriel Santos, Juan M. Corchado, Goreti Marreiros, Zita A. Vale: Semantic Web Services for Multi-Agent Systems Interoperability. *EPIA (2) 2019*: 606-616
13. Alda Canito, Goreti Marreiros, Juan Manuel Corchado : Automatic Document Annotation with Data Mining Algorithms. *WorldCIST (1) 2019*: 68-76
14. Alexandre Silvestre Ferreira, Aurora Pozo, Richard Aderbal Gonçalves (2015) An Ant Colony based Hyper-Heuristic Approach for the Set Covering Problem. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 4, n. 1*
15. Alfonso González (2020) Fintech and Tokenization: A legislative study in Argentina and Spain about the application of Blockchain in the field of properties. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 1*
16. Alfonso González-Briones, Roberto Garcia-Martin, Francisco Lecumberri de Alba, Juan M. Corchado: Agent-Based Platform for Monitoring the Pressure Status of Fire Extinguishers in a Building. *PAAMS (Workshops) 2020*: 373-384
17. Alfonso González-Briones, Yeray Mezquita Martín, José A. Castellanos-Garzón, Javier Prieto, Juan M. Corchado : Intelligent multi-agent system for water reduction in automotive irrigation processes. *ANT/EDI40 2019*: 971-976
18. Ali Wided, Kazar Okba, Bouakkaz Fatima (2019) Load balancing with Job Migration Algorithm for improving performance on grid computing: Experimental Results. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 4*
19. Altaf Hussain, Tariq Hussain, Iqtidar Ali, Muhammad Rafiq Khan (2020) Impact of Sparse and Dense Deployment of Nodes Under Different Propagation Models in Manets. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 1*
20. Álvaro Martín, David Trejo, Alejandro Yagüe, José Sánchez (2019) Multi-agent system for selecting images based on the gender and age. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 1*
21. Amir Hosein Keyhanipour, Behzad Moshiri (2013) Designing a Web Spam Classifier Based on Feature Fusion in the Layered Multi-Population Genetic Programming Framework. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 2, n. 3*
22. AMIT PURUSHOTTAM Pimpalkar, R. Jeberson Retna Raj (2020) Influence of Pre-Processing Strategies on the Performance of ML Classifiers Exploiting TF-IDF and BOW Features. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 2*
23. Ana Cristina Bicharra, Nayat Sanchez-Pi, Luis Correia, José Manuel Molina (2012) Multi-agent simulations for emergency situations in an airport scenario. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 1, n. 3*
24. Ana Oliveira Alves, Tiago Dias, David Silva (2015) A Real-Time, Distributed and Context-Aware System for Managing Solidarity Campaigns. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 4, n. 2*

25. Ana Silva, Tiago Oliveira, José Neves, Paulo Novais (2016) Treating Colon Cancer Survivability Prediction as a Classification Problem. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 1
26. Anderson Sergio, Sidartha Carvalho, Marco Rego (2014) On the Use of Compact Approaches in Evolution Strategies. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 4
27. Ángel Martín del Rey, F. K. Batista, A. Queiruga Dios (2017) Malware propagation in Wireless Sensor Networks: global models vs Individual-based models. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 3
28. Angelo Costa, Stella Heras, Javier Palanca, Paulo Novais, Vicente Julián (2016) Persuasion and Recommendation System Applied to a Cognitive Assistant. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 2
29. Anna Závodská, Veronika Šramová, Anne-Maria AHO (2012) Knowledge in Value Creation Process for Increasing Competitive Advantage. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 1, n. 3
30. Antônio C R Costa (2020) Elements for the Agent-Based Modeling of Slavery Systems. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 9, n. 1
31. Antonio J. Sánchez, Elena Hernández Nieves, Fernando de la Prieta, Juan Manuel Corchado, Sara Rodríguez:
32. Antonio Pinto, Ricardo Costa (2016) Hash-chain-based authentication for IoT. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 4
33. Aparna V (2020) Application of DCS for Level Control in Nonlinear System using Optimization and Robust Algorithms. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 9, n. 1
34. Aria Jozi, Tiago Pinto, Isabel Praça, Francisco Silva, Brigida Teixeira, Zita Val (2019) Genetic fuzzy rule-based system using MOGUL learning methodology for energy consumption forecasting. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 1
35. Arya Tanmay Gupta, Himani Gupta, Muskan Sharma, Priyanka Khanna (2020) A secure home automation prototype built on raspberry-pi. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 9, n. 2
36. Asset Management System through the design of a Jadex Agent System (2016) Javier Carbó, José M. Molina, Miguel A. Patricio. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 2
37. Baruque, B., Corchado, E., Mata, A., & Corchado, J. M. (2010) A forecasting solution to the oil spill problem based on a hybrid intelligent system. *Information Sciences*, 180(10), 2029–2043. <https://doi.org/10.1016/j.ins.2009.12.032>
38. Bogdan Okresa Durik. (2017) Organisational Metamodel for Large-Scale Multi-Agent Systems: First Steps Towards Modelling Organisation Dynamics. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 3
39. Borrajo Diz María Lourdes, Yáñez J. Carlos, Corchado Juan M. (2002) A CBR System to Assist the Internal Control Process of a Firm. *ECCBR Workshops 2002: 23-26*
40. Borrajo, M. L., Baruque, B., Corchado, E., Bajo, J., & Corchado, J. M. (2011) Hybrid neural intelligent system to predict business failure in small-to-medium-size enterprises. *International journal of neural systems*, 21(04), 277-296.

41. Borrajo, M. L., Corchado, J. M., Yáñez, J. C., Fdez-Riverola, F., & Díaz, F. (2005, August) Autonomous internal control system for small to medium firms. In *International Conference on Case-Based Reasoning* (pp. 106-121) Springer, Berlin, Heidelberg.
42. Brigida Teixeira, Gabriel Santos, Tiago Pinto, Zita A. Vale, Juan M. Corchado: Application Ontology for Multi-Agent and Web-Services' Co-Simulation in Power and Energy Systems. *IEEE Access* 8: 81129-81141 (2020)
43. Buciarelli, E., Silvestri, M., & González, S. R. (2016) Decision Economics, In *Commemoration of the Birth Centennial of Herbert A. Simon 1916-2016 (Nobel Prize in Economics 1978): Distributed Computing and Artificial Intelligence*, 13th International Conference. *Advances in Intelligent Systems and Computing* (Vol. 475) Springer.
44. Canizes, B., Pinto, T., Soares, J., Vale, Z., Chamoso, P., & Santos, D. (2017) Smart City: A GECAD-BISITE Energy Management Case Study. In *15th International Conference on Practical Applications of Agents and Multi-Agent Systems PAAMS 2017, Trends in Cyber-Physical Multi-Agent Systems* (Vol. 2, pp. 92–100) https://doi.org/10.1007/978-3-319-61578-3_9
45. Carlos Alberto Ochoa, Lourdes Yolanda Margain, Francisco Javier Ornelas, Sandra Guadalupe Jiménez, Teresa Guadalupe Padilla (2014) Using multi-objective optimization to design parameters in electro-discharge machining by wire. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 2
46. Carlos Carvalhal, Sérgio Deusdado, Leonel Deusdado (2013) Crawling PubMed with web agents for literature search and alerting services. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 2, n. 1
47. Carlos Silva, Juliano Weber, Bruno Belloni (2019) Segmentation and detection of cattle branding images using CNN and SVM classification. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 2
48. Carolina González, Juan Carlos Burguillo, Martín Llamas, Rosalía Laza (2013) Designing Intelligent Tutoring Systems: A Personalization Strategy using Case-Based Reasoning and Multi-Agent Systems. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 2, n. 1
49. Casado-Vara, R., & Corchado, J. (2019) Distributed e-health wide-world accounting ledger via blockchain. *Journal of Intelligent & Fuzzy Systems*, 36(3), 2381-2386.
50. Casado-Vara, R., Chamoso, P., De la Prieta, F., Prieto J., & Corchado J.M. (2019) Non-linear adaptive closed-loop control system for improved efficiency in IoT-blockchain management. *Information Fusion*.
51. Casado-Vara, R., de la Prieta, F., Prieto, J., & Corchado, J. M. (2018, November) Blockchain framework for IoT data quality via edge computing. In *Proceedings of the 1st Workshop on Blockchain-enabled Networked Sensor Systems* (pp. 19-24) ACM.
52. Casado-Vara, R., Novais, P., Gil, A. B., Prieto, J., & Corchado, J. M. (2019) Distributed continuous-time fault estimation control for multiple devices in IoT networks. *IEEE Access*.
53. Casado-Vara, R., Vale, Z., Prieto, J., & Corchado, J. (2018) Fault-tolerant temperature control algorithm for IoT networks in smart buildings. *Energies*, 11(12), 3430.
54. Casado-Vara, R., Prieto-Castrillo, F., & Corchado, J. M. (2018) A game theory approach for cooperative control to improve data quality and false data detection in WSN. *International Journal of Robust and Nonlinear Control*, 28(16), 5087-5102.
55. Chamoso, P., de La Prieta, F., Eibenstein, A., Santos-Santos, D., Tizio, A., & Vittorini, P. (2017) A device supporting the self-management of tinnitus. In *Lecture Notes in Computer Science* (including subseries *Lecture Notes in Artificial Intelligence* and *Lecture Notes in Bioinformatics*) (Vol. 10209 LNCS, pp. 399–410) https://doi.org/10.1007/978-3-319-56154-7_36

56. Chamoso, P., González-Briones, A., Rivas, A., De La Prieta, F., & Corchado, J. M. (2019) Social computing in currency exchange. *Knowledge and Information Systems*, 1-21.
57. Chamoso, P., González-Briones, A., Rodríguez, S., & Corchado, J. M. (2018) Tendencies of technologies and platforms in smart cities: A state-of-the-art review. *Wireless Communications and Mobile Computing*, 2018.
58. Chamoso, P., Raveane, W., Parra, V., & González, A. (2014) Uavs Applied to the Counting and Monitoring Of Animals. In *Advances in Intelligent Systems and Computing* (Vol. 291, pp. 71–80) https://doi.org/10.1007/978-3-319-07596-9_8
59. Chamoso, P., Rivas, A., Martín-Limorti, J. J., & Rodríguez, S. (2018) A Hash Based Image Matching Algorithm for Social Networks. In *Advances in Intelligent Systems and Computing* (Vol. 619, pp. 183–190) https://doi.org/10.1007/978-3-319-61578-3_18
60. Chamoso, P., Rodríguez, S., de la Prieta, F., & Bajo, J. (2018) Classification of retinal vessels using a collaborative agent-based architecture. *AI Communications*, (Preprint), 1-18.
61. Christian Paulo Villavicencio, Silvia Schiaffino, J. Andrés Díaz-Pace, Ariel Monteserin (2016) A Group Recommendation System for Movies based on MAS. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 3
62. Constantino Martins, Ana Rita Silva, Carlos Martins, Goreti Marreiros (2014) Supporting Informed Decision Making in Prevention of Prostate Cancer. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 3
63. Corchado J. M. (1995) Multi agent tools: a case study, *IEEE Conf K. D. London*, UK
64. Corchado J. M. (1995) Neuro-symbolic reasoning-a solution for complex problems, *International Conference On Intelligent Systems*, 1-3, London, UK.
65. Corchado J.M. , Lees B. (1996) Case-Base Reasoning Recommendation System. *IEEE Colloquium on knowledge discovery*, UK.
66. Corchado Juan M. (1997) Adaptive Hybrid System Architecture for Forecasting. *AAAI/IAAI 1997*: 808
67. Corchado Juan M. (2000) Resumen Mesa de Trabajo sobre Agentes Inteligentes y Sistemas Multiagente. *Inteligencia Artificial, Revista Iberoamericana de Inteligencia Artificial* 4(9): 6-7.
68. Corchado Juan M., Laza Rosalía (2002) Construction of BDI Agents from CBR systems. *German Workshop on Experience Management 2002*: 47-60
69. Corchado Juan M., Pavón Juan, Corchado Emilio, Castillo Luis Fernando (2004) Development of CBR-BDI Agents: A Tourist Guide Application. *ECCBR 2004*: 547-559
70. Corchado, E. S., Corchado, J. M., & Aiken, J. (2004) IBR retrieval method based on topology preserving mappings. *Journal of Experimental & Theoretical Artificial Intelligence*, 16(3), 145-160.
71. Corchado, E. S., Corchado, J. M., Sáiz, L., & Lara, A. (2004) A beta-cooperative cbr system for constructing a business management model. In *Industrial Conference on Data Mining*(pp. 42-49) Springer, Berlin, Heidelberg.
72. Corchado, E., Corchado, J. M., Sáiz, L., & Lara, A. (2004) Constructing a global and integral model of business management using a cbr system. In *International Conference on Cooperative Design, Visualization and Engineering* (pp. 141-147) Springer, Berlin, Heidelberg.
73. Corchado, J. (1995) Cbr systems, an overview. In *INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS. LONDON, ENGLAND, UK.*
74. Corchado, J. (1998) Real time forecast with intelligent systems. In *CONFERENCE ON KNOWLEDGE DISCOVERY. IEE, SAVOY PLACE, LONDON.*

75. Corchado, J. A., Aiken, J., Corchado, E. S., Lefevre, N., & Smyth, T. (2004) Quantifying the Ocean's CO₂ budget with a CoHeL-IBR system. In *Advances in Case-Based Reasoning, Proceedings* (Vol. 3155, pp. 533–546)
76. Corchado, J. M. (1997) BDI multiagent hybrid architecture for project management. In *IEEE COLLOQUIUM ON KNOWLEDGE DISCOVERY AND DATA MINING*. LONDON ENGLAND.
77. Corchado, J. M. (1997) Real time forecast with intelligent systems: Cbrs and anns. In *WORKSHOP ON ARTIFICIAL NEURAL NETWORKS*. ABERDEEN (pp. 1-3)
78. Corchado, J. M. (1997) System for decision making: a practical case. In *CONFERENCE ON KNOWLEDGE DISCOVERY AND DATA MINING*. IEE, LONDON, UK.
79. Corchado, J. M. (1998) Models for integrating artificial intelligence approaches. *DOCTORAL CONSORTIUM ON KNOWLEDGE DISCOVERY AND DATA MINING*. PAISLEY, UK.
80. Corchado, J. M. (2000) *Redes Neuronales Artificiales: un enfoque práctico*. Universidade, Departamento de Linguaxes e Sistemas Infomaticos.
81. Corchado, J. M., & Aiken, J. (1998) Expert system for modelling water masses. In *WORKSHOP ON DATA MINING*. GLASGOW, SCOTLAND.
82. Corchado, J. M., & Aiken, J. (1998) Neuro-symbolic reasoning for real time oceanographic problems. In *CONFERENCE ON DATA MINING*. IEE, SAVOY PLACE, LONDON.
83. Corchado, J. M., & Aiken, J. (2002) Hybrid artificial intelligence methods in oceanographic forecast models. *Ieee Transactions on Systems Man and Cybernetics Part C-Applications and Reviews*, 32(4), 307–313. <https://doi.org/10.1109/tsmcc.2002.806072>
84. Corchado, J. M., & Fyfe, C. (1999) Unsupervised neural method for temperature forecasting. *Artificial Intelligence in Engineering*, 13(4), 351–357. [https://doi.org/10.1016/S0954-1810\(99\)00007-2](https://doi.org/10.1016/S0954-1810(99)00007-2)
85. Corchado, J. M., & Laza, R. (2003) Constructing deliberative agents with case-based reasoning technology. *International Journal of Intelligent Systems*, 18(12), 1227-1241.
86. Corchado, J. M., & Lees, B. (1998) Cognitive models for integrating artificial intelligence approaches. In *All WORKSHOP ON KNOWLEDGE DISCOVERY*. GLASGOW, UK.
87. Corchado, J. M., & Lees, B. (1998) Integration AI models. In *WORKSHOP ON KNOWLEDGE DISCOVERY AND DATA MINING*. PML-NERC, PLYMOUTH LONDON, UK.
88. Corchado, J. M., & Lees, B. (1998) Probis: Modelling intelligence with hybrid systems. In *WORKSHOP ON DATA MINING*. University of GLASGOW, SCOTLAND, UK.
89. Corchado, J. M., & Lees, B. (2001) A hybrid case-based model for forecasting. *Applied Artificial Intelligence*, 15(2), 105-127.
90. Corchado, J. M., Aiken, J., Corchado, E. S., & Fdez-Riverola, F. (2005) Evaluating the air–sea interactions and fluxes using an instance-based reasoning system. *AI Communications*, 18(4), 247-256.
91. Corchado, J. M., Borrajo, M. L., Pellicer, M. A., & Yáñez, J. C. (2004) Neuro-symbolic System for Business Internal Control. In *Industrial Conference on Data Mining* (pp. 1–10) https://doi.org/10.1007/978-3-540-30185-1_1
92. Corchado, J. M., Corchado, E. S., & Pellicer, M. A. (2004, September) Design of cooperative agents for mobile devices. In *International Conference on Cooperative Design, Visualization and Engineering* (pp. 205-212) Springer, Berlin, Heidelberg.
93. Corchado, J. M., Corchado, E. S., Aiken, J., Fyfe, C., Fernandez, F., & Gonzalez, M. (2003) Maximum likelihood hebbian learning based retrieval method for cbr systems. In *International Conference on Case-Based Reasoning* (pp. 107-121) Springer, Berlin, Heidelberg.

94. Corchado, J. M., Laza, R., Borrajo, L., Yañez, J. C., De Luis, A., & Gonzalez-Bedia, M. (2003) Agent-based web engineering. In International Conference on Web Engineering (pp. 17-25) Springer, Berlin, Heidelberg.
95. Corchado, J. M., Lees, B., & Rees, N. (1997, February) A multi-agent system "test bed" for evaluating autonomous agents. In Proceedings of the first international conference on Autonomous agents (pp. 386-393) ACM.
96. Corchado, J. M., Pavón, J., Corchado, E. S., & Castillo, L. F. (2004) Development of CBR-BDI agents: A tourist guide application. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) (Vol. 3155, pp. 547–559) <https://doi.org/10.1007/978-3-540-28631-8>
97. Corchado, J. M., Rees, N., Fyfe, C., & Lees, B. (1997, April) Study and comparison of multilayer perceptron nn and radial basis function nn in oceanographic forecasting. In Applications and Science of Artificial Neural Networks III (Vol. 3077, pp. 550-560) International Society for Optics and Photonics.
98. Corchado, J. M., Rees, N., Lees, B., & Aiken, J. (1998) Data mining using example-based methods in oceanographic forecast models.
99. Corchado, J., & Lees, B. (1998) An overview of intelligent frameworks. In COLLOQUIUM ON INTELLIGENT SYSTEMS. IEE, LONDON, UK.
100. Corchado, J., & Lees, B. (1998) Artificial neural networks in pattern recognition: multicollinearity and heterocedasticity. In COLLOQUIUM ON KNOWLEDGE DISCOVERY. LONDON, UK.
101. Corchado, J., & Lees, B. (1998) Case based reasoning opportunities and technologies. In CONFERENCE ON KNOWLEDGE DISCOVERY. IEE, SAVOY PLACE, LONDON.
102. Corchado, J., Fyfe, C., & Lees, B. (1998) Unsupervised learning for financial forecasting. In Proceedings of the IEEE/IAFE/INFORMS 1998 Conference on Computational Intelligence for Financial Engineering (CIFEr) (Cat. No.98TH8367) (pp. 259–263)
103. Coria, J. A. G., Castellanos-Garzón, J. A., & Corchado, J. M. (2014) Intelligent business processes composition based on multi-agent systems. *Expert Systems with Applications*, 41(4), 1189-1205.
104. Costa, Â., Novais, P., Corchado, J. M., & Neves, J. (2011) Increased performance and better patient attendance in an hospital with the use of smart agendas. *Logic Journal of IGPL*, 20(4), 689-698.
105. Cristian Peñaranda, Jorge Agüero, Carlos Carrascosa, Miguel Rebollo, Vicente Julián (2016) An Agent-Based Approach for a Smart Transport System. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 2
106. Daniel Ayala, Juan C. Roldán, David Ruiz, Fernando O. Gallego (2015) An approach for discovering keywords from Spanish tweets using Wikipedia. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 2
107. Daniel López Sánchez, Angélica González Arrieta, Juan M. Corchado (2019) Visual content-based web page categorization with deep transfer learning and metric learning. *Neurocomputing* 338: 418-431
108. Daniel López Sánchez, Angélica González Arrieta, Juan M. Corchado: Compact bilinear pooling via kernelized random projection for fine-grained image categorization on low computational power devices. *Neurocomputing* 398: 411-421 (2020)
109. David García-Retuerta, Álvaro Bartolomé, Pablo Chamoso, Juan M. Corchado, Alfonso González-Briones: Original Content Verification Using Hash-Based Video Analysis. *ISAmI 2019*: 120-127

110. David García-Retuerta, Álvaro Bartolomé, Pablo Chamoso, Juan Manuel Corchado (2019) Counter-Terrorism Video Analysis Using Hash-Based Algorithms. *Algorithms* 12(5): 110
111. David García-Retuerta, Angel Canal-Alonso, Roberto Casado-Vara, Ángel Martín del Rey, Gabriella Panuccio, Juan M. Corchado: Bidirectional-Pass Algorithm for Interictal Event Detection. *PACBB 2020*: 197-204
112. David García-Retuerta, Roberto Casado-Vara, Ángel Martín del Rey, Fernando de la Prieta, Javier Prieto, Juan M. Corchado: Quaternion Neural Networks: State-of-the-Art and Research Challenges. *IDEAL* (2) 2020: 456-467
113. David Griol, Jose M. Molina (2016) A proposal to manage multi-task dialogs in conversational interfaces. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 2
114. David Griol, Jose Manuel Molina (2016) From VoiceXML to multimodal mobile Apps: development of practical conversational interfaces. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 3
115. David Griol, Jose Manuel Molina (2016) Simulating heterogeneous user behaviors to interact with conversational interfaces. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 4
116. David Griol, Jose Manuel Molina, Araceli Sanchís De Miguel (2014) Developing multimodal conversational agents for an enhanced e-learning experience. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 1
117. David Griol, José Molina (2015) Measuring the differences between human-human and human-machine dialogs. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 2
118. Denisa Reshef Kera, Petr Sourek, Mateusz Krainski, Yair Reshef, Juan Manuel Corchado Rodríguez, Iva Magdalena Knobloch: Lithopia: Prototyping Blockchain Futures. *CHI Extended Abstracts 2019*
119. Describing Interfaces in the Framework of Adaptive Interface Ecosystems. *EPIA* (2) 2019: 38-49
120. Di Mascio, T., Vittorini, P., Gennari, R., Melonio, A., De La Prieta, F., & Alrifai, M. (2012, July) The Learners' User Classes in the TERENCE Adaptive Learning System. In *2012 IEEE 12th International Conference on Advanced Learning Technologies* (pp. 572-576) IEEE.
121. Díaz, F., Fdez-Riverola, F., & Corchado, J. M. (2006) gene-CBR: A CASE-BASED REASONING TOOL FOR CANCER DIAGNOSIS USING MICROARRAY DATA SETS. *Computational Intelligence*, 22(3-4), 254-268.
122. Diego Valdeolillos, Yeray Mezquita Martín, Alfonso González-Briones, Javier Prieto, Juan Manuel Corchado: Blockchain Technology: A Review of the Current Challenges of Cryptocurrency. *BLOCKCHAIN 2019*: 153-160
123. Diego Vergara, Jamil Extremera, Manuel Pablo Rubio, Lilian P. Dávila (2020) The proliferation of virtual laboratories in educational fields. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 9, n. 1
124. Diogo Martinho, João Carneiro, Juan M. Corchado, Goreti Marreiros: A systematic review of gamification techniques applied to elderly care. *Artif. Intell. Rev.* 53(7): 4863-4901 (2020)
125. Diogo Martinho, João Carneiro, Paulo Novais, José Neves, Juan M. Corchado, Goreti Marreiros:
126. Ebru Pekel Özmen, Engin Pekel (2019) Estimation of Number of Flight Using Particle Swarm Optimization and Artificial Neural Network. *ADCAIJ: Advances in*

- Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 3
127. Eduardo Facchini, Eduardo Mario Dias (2019) The importance of development of control processes and methods for urban bus services. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 3
 128. Eduardo Facchini, Eduardo Mario Dias, Alexandre Pelegi Abreu, Maria Lúcia Rebello Pinho Dias (2016) Brazil in Search of Transparency E-Gov. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 5, n. 1
 129. Eduardo Mario Dias, Eduardo Facchini, Antônio Carlos De Moraes, Mauricio Lima Ferreira, Willian Reginato Este, Maria Lúcia Rebello, Pinho Dias (2014) A Future Look. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 3, n. 3
 130. Eduardo Munera, Jose-Luis Poza-Lujan, Juan-Luis Posadas-Yagüe, Jose-Enrique Simó-Ten, Francisco Blanes (2017) Integrating Smart Resources in ROS-based systems to distribute services. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 6, n. 1
 131. Eduardo Porto Teixeira, Eder M. N. Goncalves, Diana F. Adamatti (2017) Ulises: A Agent-Based System For Timbre Classification. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 6, n. 2
 132. Elena Hernández Nieves, Álvaro Bartolomé del Canto, Pablo Chamoso-Santos, Fernando de la Prieta Pintado, Juan M. Corchado Rodríguez: A Machine Learning Platform for Stock Investment Recommendation Systems. DCAI 2020: 303-313
 133. Elena Hernández Nieves, Guillermo Hernández, Ana Belén Gil González, Sara Rodríguez-González, Juan M. Corchado: Fog computing architecture for personalized recommendation of banking products. Expert Syst. Appl. 140 (2020)
 134. Elton S Siqueira, Patrick Cisuaka Kabongo, Tiancheng Li, Carla D. Castanho, Li Weigang (2016) On Chinese and Western Family Trees: Mechanism and Performance. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 5, n. 1
 135. Emilio J. Sánchez, Francisco Jaramago, Manuel López (2019) Virtual agent organizations to optimize energy consumption in households. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 1
 136. Emmanuel Adam, Emmanuelle Grislin-Le Strugeon, René Mandiau (2012) MAS architecture and knowledge model for vehicles data communication. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 1, n. 1
 137. Emmanuel Savio Silva Freire, Mariela Inés Cortés, Robert Marinho Da Rocha Júnior, Ênyo José (2019) NorMAS-ML: Supporting the Modeling of Normative Multi-agent Systems. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 4
 138. Enyo Gonçalves, Mariela Cortés, Marcos De Oliveira, Nécio Veras, Mário Falcão, Jaelson Castro (2017) An Analysis of Software Agents, Environments and Applications School: Retrospective, Relevance, and Trends. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 6, n. 2
 139. Eva L. Iglesias, Lourdes Borrajo, R. Romero (2014) A HMM text classification model with learning capacity. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 3, n. 3

140. Fábio Silva, Cesar Analide (2015) Tracking Context-Aware Well-Being through Intelligent Environments. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 2
141. Farzaneh Zafary (2019) Ranking Factors Affecting Organizational Readiness to Implement Enterprise Resource Planning Systems Using Fuzzy-Dimensional Network Analysis. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 3
142. Fdez-Riverola, F., & Corchado, J. M. (2003) CBR based system for forecasting red tides. *Knowledge-Based Systems*, 16(5–6 SPEC.), 321–328. [https://doi.org/10.1016/S0950-7051\(03\)00034-0](https://doi.org/10.1016/S0950-7051(03)00034-0)
143. Fdez-Riverola, F., & Corchado, J. M. (2004) Fsfirt: Forecasting system for red tides. *Applied Intelligence*, 21(3), 251-264.
144. Fdez-Riverola, F., Corchado, J. M., & Torres, J. M. (2002, September) An automated hybrid cbr system for forecasting. In *European Conference on Case-Based Reasoning* (pp. 519-533) Springer, Berlin, Heidelberg.
145. Fdez-Riverola, F., Díaz, F., & Corchado, J. M. (2004, November) Applying rough sets reduction techniques to the construction of a fuzzy rule base for case based reasoning. In *Ibero-American Conference on Artificial Intelligence* (pp. 83-92) Springer, Berlin, Heidelberg.
146. Fdez-Riverola, F., Díaz, F., Borrajo, M. L., Yáñez, J. C., & Corchado, J. M. (2005, August) Improving gene selection in microarray data analysis using fuzzy patterns inside a cbr system. In *International Conference on Case-Based Reasoning* (pp. 191-205) Springer, Berlin, Heidelberg.
147. Felicitas Mokom, Ziad Kobti (2013) Interventions via Social Influence for Emergent Suboptimal Restraint Use. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 2, n. 2
148. Fernández Riverola Florentino, Corchado Juan M., Torres Jesús M. (2002) Neuro-symbolic System for Forecasting Red Tides. *AICS 2002*: 45-52
149. Fernández-Riverola, F., & Corchado, J. M. (2003, November) Employing tsf fuzzy models to automate the revision stage of a cbr system. In *Conference on Technology Transfer* (pp. 302-311) Springer, Berlin, Heidelberg.
150. Fernández-Riverola, F., Díaz, F., & Corchado, J. M. (2007) Reducing the memory size of a Fuzzy case-based reasoning system applying rough set techniques. *IEEE Transactions on Systems, Man and Cybernetics Part C: Applications and Reviews*, 37(1), 138–146. <https://doi.org/10.1109/TSMCC.2006.876058>
151. Fernando de la Prieta, Sara Rodríguez-González, Pablo Chamoso, Juan Manuel Corchado, Javier Bajo (2019) Survey of agent-based cloud computing applications. *Future Generation Comp. Syst.* 100: 223-236
152. Fraile, J. A., Bajo, J., Corchado, J. M., & Abraham, A. (2010) Applying wearable solutions in dependent environments. *IEEE Transactions on Information Technology in Biomedicine*, 14(6), 1459-1467.
153. Francisco Lecumberri de Alba, Alfonso González-Briones, Pablo Chamoso, Tiago Pinto, Zita A. Vale, Juan M. Corchado: A P2P Electricity Negotiation Agent Systems in Urban Smart Grids. *DCAI (Special Sessions) 2020*: 97-106
154. Fyfe, C., & Corchado, J. (2002) A comparison of Kernel methods for instantiating case based reasoning systems. *Advanced Engineering Informatics*, 16(3), 165–178. [https://doi.org/10.1016/S1474-0346\(02\)00008-3](https://doi.org/10.1016/S1474-0346(02)00008-3)
155. Fyfe, C., & Corchado, J. M. (2001) Automating the construction of CBR systems using kernel methods. *International Journal of Intelligent Systems*, 16(4), 571–586. <https://doi.org/10.1002/int.1024>

156. Gabriel Santos, Tiago Pinto, Zita Vale, Isabel Praça, Hugo Morais (2016) Enabling Communications in Heterogeneous Multi-Agent Systems: Electricity Markets Ontology. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 2
157. Gabriele Di Giammarco, Tania Di Mascio, Michele Di Mauro, Antonietta Tarquinio, Pierpaolo Vittorini (2015) SmartHeart CABG Edu. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 1
158. García Coria, J. A., Castellanos-Garzón, J. A., & Corchado, J. M. (2014) Intelligent business processes composition based on multi-agent systems. *Expert Systems with Applications*, 41(4 PART 1), 1189–1205. <https://doi.org/10.1016/j.eswa.2013.08.003>
159. García, O., Chamoso, P., Prieto, J., Rodríguez, S., & De La Prieta, F. (2017) A serious game to reduce consumption in smart buildings. In *Communications in Computer and Information Science* (Vol. 722, pp. 481–493) https://doi.org/10.1007/978-3-319-60285-1_41
160. George Katranas, Andreas Riel, Juan Manuel Corchado Rodríguez, Marta Plaza-Hernández: The SMARTSEA Education Approach to Leveraging the Internet of Things in the Maritime Industry. *EuroSPI 2020*: 247-258
161. Giancarlo Souza De Freitas, Thiago Ângelo Gelaim, Rodrigo Rodrigues Pires De Mello, Ricardo Az (2019) Perception Policies for Intelligent Virtual Agents. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 2
162. Glez-Bedia, M., Corchado, J. M., Corchado, E. S., & Fyfe, C. (2002) Analytical model for constructing deliberative agents. *International Journal of Engineering Intelligent Systems for Electrical Engineering and Communications*, 10(3)
163. Glez-Peña, D., Díaz, F., Hernández, J. M., Corchado, J. M., & Fdez-Riverola, F. (2009) geneCBR: A translational tool for multiple-microarray analysis and integrative information retrieval for aiding diagnosis in cancer research. *BMC Bioinformatics*, 10. <https://doi.org/10.1186/1471-2105-10-187>
164. Gonzalez-Briones, A., Chamoso, P., De La Prieta, F., Demazeau, Y., & Corchado, J. M. (2018) Agreement Technologies for Energy Optimization at Home. *Sensors (Basel)*, 18(5), 1633-1633. doi:10.3390/s18051633
165. González-Briones, A., Chamoso, P., Yoe, H., & Corchado, J. M. (2018) GreenVMAS: virtual organization-based platform for heating greenhouses using waste energy from power plants. *Sensors*, 18(3), 861.
166. González-Briones, A., De La Prieta, F., Mohamad, M., Omatu, S., & Corchado, J. (2018) Multi-agent systems applications in energy optimization problems: A state-of-the-art review. *Energies*, 11(8), 1928.
167. Gonzalez-Briones, A., Prieto, J., De La Prieta, F., Herrera-Viedma, E., & Corchado, J. M. (2018) Energy Optimization Using a Case-Based Reasoning Strategy. *Sensors (Basel)*, 18(3), 865-865. doi:10.3390/s18030865
168. Guillaume Desquesnes, Guillaume Lozenguez, Arnaud Doniec, Éric Duviella (2016) Planning large systems with MDPs: case study of inland waterways supervision. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 4
169. Gulchin Abdullayeva, Ulker Alizade (2019) An Information Recognition System for Complex Images. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 3
170. Gustavo Isaza, Maria H. Mejía, Luis Fernando Castillo, Adriana Morales, Nestor Duque (2012) Network Management using Multi-Agents System. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 1, n. 3

171. Hafewa Bargaoui, Olfa Belkahla Driss (2014) Multi-Agent Model based on Tabu Search for the Permutation Flow Shop Scheduling Problem. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 1
172. Hanaa Al-Lohibi, Tahani Alkhamisi, Maha Assagran, Amal Aljohani, Asia Othaman Aljahdali (2020) Awjedni: A Reverse-Image-Search Application. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 9, n. 3
173. Hugo López-Fernández, Miguel Reboiro-Jato, José A. Pérez Rodríguez, Florentino Fdez-Riverola, Daniel Glez-Peña (2016) The Artificial Intelligence Workbench: a retrospective review. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 1
174. Ichiro Satoh (2012) Bio-inspired Self-Adaptive Agents in Distributed Systems. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 1, n. 2
175. Inés Sittón-Candanedo, Ricardo S. Alonso, Juan M. Corchado, Sara Rodríguez-González, Roberto Casado-Vara (2019) A review of edge computing reference architectures and a new global edge proposal. *Future Generation Comp. Syst.* 99: 278-294
176. Iqtidar Ali, Tariq Hussain, Kamran Khan, Arshad Iqbal, Fatima Perviz (2020) The Impact of IEEE 802.11 Contention Window on The Performance of Transmission Control Protocol in Mobile Ad-Hoc Network. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 9, n. 3
177. Jaime Rincón, Jose Luis Poza, Juan Luis Posadas, Vicente Julián, Carlos Carrascosa (2016) Adding real data to detect emotions by means of smart resource artifacts in MAS. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 4
178. Jamal Ahmad Dargham, Ali Chekima, Ervin Gubin Moug, Sigeru Omatu (2014) The Effect of Training Data Selection on Face Recognition in Surveillance Application. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 4
179. Jasmine K. S., Gavani Prathviraj S., Ijantakar Rajashekar P, Sumithra Devi K. A. (2013) Inference in Belief Network using Logic Sampling and Likelihood Weighing algorithms. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 2, n. 3
180. Javier Prieto, Ashok Kumar Das, Stefano Ferretti, António Pinto, Juan Manuel Corchado: Blockchain and Applications - International Congress, BLOCKCHAIN 2019, Avila, Spain, 26-28 June, 2019. *Advances in Intelligent Systems and Computing* 1010, Springer 2020, ISBN 978-3-030-23812-4 [contents]
181. Jean Louis Monino, Soraya Sedkaoui (2016) The Algorithm of the Snail: An Example to Grasp the Window of Opportunity to Boost Big Data. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 3
182. Jesús Ángel Román Gallego, Sara Rodríguez González (2015) Improvement in the distribution of services in multi-agent systems with SCODA. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 3
183. Joana Urbano, Henrique Lopes Cardoso, Ana Paula Rocha, Eugénio Oliveira (2012) Trust and Normative Control in Multi-Agent Systems. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 1, n. 1

184. Jörg Bremer, Sebastian Lehnhoff. (2017) Decentralized Coalition Formation with Agent-based Combinatorial Heuristics. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 3
185. Jorge Agüero, Miguel Rebollo, Carlos Carrascosa, Vicente Julián (2013) MDD-Approach for developing Pervasive Systems based on Service-Oriented Multi-Agent Systems. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 2, n. 3
186. José A. Castellanos-Garzón, Ernesto Costa, José Luis Jaimes S., Juan M. Corchado : An evolutionary framework for machine learning applied to medical data. *Knowl. Based Syst.* 185 (2019)
187. Jose A. Maderuelo-Fernandez, Angel Garcia-Garcia, Pablo Chamoso, José I. Recio-Rodríguez, Sara Rodríguez-González, Maria C. Patino-Alonso, Emiliano Rodriguez-Sanchez, Juan M. Corchado Rodríguez, Manuel A. Gómez-Marcos, Luis García-Ortiz: Automatic image analyser to assess retinal vessel calibre (ALTAIR). A new tool to evaluate the thickness, area and length of the vessels of the retina. *Int. J. Medical Informatics* 136: 104090 (2020)
188. José Alemany, Stella Heras, Javier Palanca, Vicente Julián (2016) Bargaining agents based system for automatic classification of potential allergens in recipes. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 2
189. Juan Bullón, Angélica González Arrieta, Ascensión Hernández Encinas, Araceli Queiruga Dios (2017) Manufacturing processes in the textile industry. *Expert Systems for fabrics production. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 1
190. Juan Carlos Alvarado-Pérez, Diego H. Peluffo-Ordóñez, Roberto Therón (2015) Bridging the gap between human knowledge and machine learning. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 1
191. Juan Castro, Pere Marti-Puig (2014) Real-time Identification of Respiratory Movements through a Microphone. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 3
192. Koetsier, J., Corchado, E., MacDonald, D., Corchado, J., & Fyfe, C. (2004, June) Kernel maximum likelihood hebbian learning. In *International Conference on Computational Science* (pp. 650-653) Springer, Berlin, Heidelberg.
193. Kohei Fukuyama, Kenji Matsui, Sigeru Omatsu, Alberto Rivas, Juan Manuel Corchado: Feature Extraction and Classification of Odor Using Attention Based Neural Network. *DCAI 2019*: 142-149
194. Koji Hitomi, Kenji Matsui, Alberto Rivas, Juan Manuel Corchado: Development of a Dangerous Driving Suppression System Using Inverse Reinforcement Learning and Blockchain. *DCAI 2019*: 3-9
195. Laura Pacheco, Naiara Sánchez, Antoni Tur, David Tellez De Meneses (2019) Algorithm Analysis in Multi-agent Systems. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 1
196. Laza, R., Pavn, R., & Corchado, J. M. (2004) A reasoning model for CBR_BDI agents using an adaptable fuzzy inference system. In *Lecture Notes in Computer Science* (including subseries *Lecture Notes in Artificial Intelligence* and *Lecture Notes in Bioinformatics*) (Vol. 3040, pp. 96–106) Springer, Berlin, Heidelberg.
197. Lees, B., & Corchado, J. (1999, March) Integrated case-based neural network approach to problem solving. In *German Conference on Knowledge-Based Systems* (pp. 157-166) Springer, Berlin, Heidelberg.

198. Leonardo Ochoa-Aday, Cristina Cervelló-Pastor, Adriana Fernández-Fernández (2016) Discovering the Network Topology: An Efficient Approach for SDN. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 5, n. 2
199. Leonor Becerra-Bonache, M. Dolores Jiménez López (2014) Linguistic Models at the Crossroads of Agents, Learning and Formal Languages. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 3, n. 4
200. Li, T., Sun, S., Corchado, J. M., & Siyau, M. F. (2014) A particle dyeing approach for track continuity for the SMC-PHD filter. In FUSION 2014 - 17th International Conference on Information Fusion.
201. Lima, A. C. E. S., De Castro, L. N., & Corchado, J. M. (2015) A polarity analysis framework for Twitter messages. Applied Mathematics and Computation, 270, 756–767. <https://doi.org/10.1016/j.amc.2015.08.059>
202. Lorna Uden, I-Hsien Ting, Juan Manuel Corchado: Knowledge Management in Organizations - 14th International Conference, KMO 2019, Zamora, Spain, July 15-18, 2019, Proceedings. Communications in Computer and Information Science 1027, Springer 2019, ISBN 978-3-030-21450-0 [contents]
203. Lucas Fernando Souza De Castro, Gleifer Vaz Alves, André Pinz Borges (2017) Using trust degree for agents in order to assign spots in a Smart Parking. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 6, n. 2
204. Luis Gomes, Zita A. Vale, Juan Manuel Corchado Rodríguez: Multi-Agent Microgrid Management System for Single-Board Computers: A Case Study on Peer-to-Peer Energy Trading. IEEE Access 8: 64169-64183 (2020)
205. M. Naveenkumar, S. Domnic (2019) Learning Representations from Spatio-Temporal Distance Maps for 3D Action Recognition with Convolutional Neural Networks. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 2
206. Mahesh S Patil, Satyadhyam Chickerur, Anand Meti, Priyanka M Nabapure, Sunaina Mahindrakar, Sonali Na (2019) LSTM Based Lip Reading Approach for Devanagiri Script. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 3
207. Manuel Gómez Zotano, Jorge Gómez-Sanz, Juan Pavón (2015) User Behavior in Mass Media Websites. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 4, n. 3
208. Manuel Pérez-Moríñigo, Víctor Merchán-Montero, José Luis Martín-Pérez (2019) Learning process: Multi-Agent Tutoring System. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 1
209. Marco Antonio Ameller, María Angélica González (2016) Minutiae filtering using ridge-valley method. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 5, n. 1
210. Margherita Brondino, Gabriella Dodero, Rosella Gennari, Alessandra Melonio, Daniela Raccanello, Santina Torello (2014) Achievement Emotions and Peer Acceptance Get Together in Game Design at School. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 3, n. 4
211. Marisol García-Valls (2016) Prototyping low-cost and flexible vehicle diagnostic systems. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 5, n. 4

212. Marta Fernandes, Alda Canito, Juan Manuel Corchado, Goreti Marreiros: Fault Detection Mechanism of a Predictive Maintenance System Based on Autoregressive Integrated Moving Average Models. *DCAI 2019*: 171-180
213. Marta Plaza-Hernández, Ana Belén Gil González, Sara Rodríguez-González, Javier Prieto Tejedor, Juan Manuel Corchado Rodríguez: Integration of IoT Technologies in the Maritime Industry. *DCAI (Special Sessions) 2020*: 107-115
214. Mata, A., & Corchado, J. M. (2009) Forecasting the probability of finding oil slicks using a CBR system. *Expert Systems with Applications*, 36(4), 8239–8246.
215. Méndez, J. R., Fdez-Riverola, F., Díaz, F., Iglesias, E. L., & Corchado, J. M. (2006) A comparative performance study of feature selection methods for the anti-spam filtering domain. *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 4065 LNAI, 106–120.
216. Méndez, J. R., Fdez-Riverola, F., Iglesias, E. L., Díaz, F., & Corchado, J. M. (2006, September) Tracking concept drift at feature selection stage in spamhunting: An anti-spam instance-based reasoning system. In *European conference on case-based reasoning* (pp. 504-518) Springer, Berlin, Heidelberg.
217. Méndez, J. R., Iglesias, E. L., Fdez-Riverola, F., Díaz, F., & Corchado, J. M. (2005, November) Tokenising, stemming and stopword removal on anti-spam filtering domain. In *Conference of the Spanish Association for Artificial Intelligence* (pp. 449-458) Springer, Berlin, Heidelberg.
218. Miguel Oliver, José Pascual Molina, Antonio Fernández-Caballero, Pascual González. (2017) Collaborative Computer-Assisted Cognitive Rehabilitation System. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 3
219. Miki Ueno, Naoki Mori, Keinosuke Matsumoto (2012) Picture information shared conversation agent: Pictgent. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 1, n. 1
220. Miki Ueno, Naoki Mori, Keinosuke Matsumoto (2014) Picture models for 2-scene comics creating system. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 2
221. Miki Ueno, Toshinori Suenaga, Hitoshi Isahara (2017) Classification of Two Comic Books based on Convolutional Neural Networks. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 1
222. Ming Fei Siyau, Tiancheng Li, Jonathan Loo (2014) A Novel Pilot Expansion Approach for MIMO Channel Estimation. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 3
223. Mohamed Frikha, Mohamed Mhiri, Faiez Gargouri (2015) A Semantic Social Recommender System Using Ontologies Based Approach For Tunisian Tourism. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 1
224. Morente-Molinera, J. A., Kou, G., González-Crespo, R., Corchado, J. M., & Herrera-Viedma, E. (2017) Solving multi-criteria group decision making problems under environments with a high number of alternatives using fuzzy ontologies and multi-granular linguistic modelling methods. *Knowledge-Based Systems*, 137, 54-64.
225. Muhammad Akmal bin Remli, Mohd Saberi Mohamad, Safaai Deris, Azurah A. Samah, Sigeru Omatu, Juan M. Corchado (2019) Cooperative enhanced scatter search with opposition-based learning schemes for parameter estimation in high dimensional kinetic models of biological systems. *Expert Syst. Appl.* 116: 131-146
226. Muhammad Muzammul (2019) Education System re-engineering with AI (artificial intelligence) for Quality Im-provements with proposed model. *ADCAIJ: Advances in*

- Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 2
227. Muhammad Umer, Muhammad Awais, Muhammad Muzammul (2019) Stock Market Prediction Using Machine Learning(ML)Algorithms. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 4
 228. Muhammet Sinan Basarslan, Fatih Kayaalp (2020) Sentiment Analysis with Machine Learning Methods on Social Media. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 3
 229. Muñoz, M., Rodríguez, M., Rodríguez, M. E., & Rodríguez, S. (2012) Genetic evaluation of the class III dentofacial in rural and urban Spanish population by AI techniques. Advances in Intelligent and Soft Computing (Vol. 151 AISC) https://doi.org/10.1007/978-3-642-28765-7_49
 230. Nadia Alam, Munira Sultana, M.S. Alam, M. A. Al-Mamun, M. A. Hossain (2013) Optimal Intermittent Dose Schedules for Chemotherapy Using Genetic Algorithm. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 2, n. 2
 231. Nahla Aljojo (2020) Digital Information Needs for Understanding Cell Divisions in the Human Body. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 2
 232. Nahla Aljojo (2020) Kids' Atlas application to Learn about Geography and Maps. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 2
 233. Naveed Hussain, Hamid Turab Mirza, Ibrar Hussain (2019) Detecting Spam Review through Spammer's Behavior Analysis. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 2
 234. Neha Kailash Nawandar, Vishal Satpute (2019) IoT based intelligent irrigation support system for smart farming applications. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 2
 235. Nibeth Mena Mamani (2020) Machine Learning techniques and Polygenic Risk Score application to prediction genetic diseases. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 1
 236. Niloufar Shoeibi, Alberto Martín Mateos, Alberto Rivas Camacho, Juan M. Corchado: A Feature Based Approach on Behavior Analysis of the Users on Twitter: A Case Study of AusOpen Tennis Championship. DCAI 2020: 284-294
 237. Niloufar Shoeibi, Farrokh Karimi, Juan Manuel Corchado: Artificial Intelligence as a Way of Overcoming Visual Disorders: Damages Related to Visual Cortex, Optic Nerves and Eyes. DCAI (Special Sessions) 2019: 183-187
 238. Noor Fatima (2020) Enhancing Performance of a Deep Neural Network by Comparing Optimizers Experimentally. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 2
 239. Nuno Trindade, Luis Antunes (2013) An Architecture for Agent's Risk Perception. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 2, n. 2
 240. Nuria Mateos García (2019) Multi-agent system for anomaly detection in Industry 4.0 using Machine Learning techniques. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 4
 241. Omar Jassim, Moamin Mahmoud, Mohd Sharifuddin Ahmad (2014) Research Supervision Management Via A Multi-Agent Framework. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 3, n. 4

242. Pablo Chamoso, Alfonso González-Briones, Alberto Rivas, Fernando de la Prieta, Juan M. Corchado (2019) Social computing in currency exchange. *Knowl. Inf. Syst.* 61(2): 733-753
243. Pablo Chamoso, Alfonso González-Briones, Fernando de la Prieta, Kumar G. Venyagamoorthy, Juan M. Corchado: Smart city as a distributed platform: Toward a system for citizen-oriented management. *Comput. Commun.* 152: 323-332 (2020)
244. Pablo Chamoso, Fernando De La Prieta (2015) Simulation environment for algorithms and agents evaluation. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 3
245. Pablo Chamoso, Henar Pérez-Ramos, Ángel García-García (2014) ALTAIR: Supervised Methodology to Obtain Retinal Vessels Caliber. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 3, n. 4
246. Palomino, C. G., Nunes, C. S., Silveira, R. A., González, S. R., & Nakayama, M. K. (2017) Adaptive agent-based environment model to enable the teacher to create an adaptive class. *Advances in Intelligent Systems and Computing* (Vol. 617) https://doi.org/10.1007/978-3-319-60819-8_3
247. Paula Andrea Rodríguez Marín, Mauricio Giraldo, Valentina Tabares, Néstor Duque, Demetrio Ovalle (2016) Educational Resources Recommendation System for a heterogeneous Student Group. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 3
248. Paula Andrea Rodríguez Marín, Néstor Duque, Demetrio Ovalle (2015) Multi-agent system for Knowledge-based recommendation of Learning Objects. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 1
249. Pavón, J., & Corchado, J. (2004) Agents for the web. *International journal of Web engineering and technology*, 1(4), 393-396.
250. Pavón, J., Corchado, J. M., Gómez-Sanz, J. J., & Ossa, L. F. C. (2004, October) Mobile tourist guide services with software agents. In *International Workshop on Mobile Agents for Telecommunication Applications* (pp. 322-330) Springer, Berlin, Heidelberg.
251. Pawel Pawlewski, Paulina Golinska, Paul-Eric Dossou (2012) Application potential of Agent Based Simulation and Discrete Event Simulation in Enterprise integration modelling concepts. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 1, n. 1
252. Pedro Sánchez, Denis Pato, Gabriel Martín (2019) CTRANSPORT: Multi-agent-based simulation. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 1
253. Pérez, A., Chamoso, P., Parra, V., & Sánchez, A. J. (2014) Ground Vehicle Detection Through Aerial Images Taken by a UAV. In *Information Fusion (FUSION), 2014 17th International Conference on*.
254. Pilar Carrión, Rosalía Laza, Encarnación González-Rufino, Juan M. Corchado (1999) Knowledge Management with an Agent Network. *LANOMS 1999*
255. Prieto, J., Alonso, A. A., de la Rosa, R., & Carrera, A. (2014) Adaptive Framework for Uncertainty Analysis in Electromagnetic Field Measurements. *Radiation Protection Dosimetry*, ncu260.
256. Prieto, J., Mazuelas, S., Bahillo, A., Fernandez, P., Lorenzo, R. M., & Abril, E. J. (2012) Adaptive data fusion for wireless localization in harsh environments. *IEEE Transactions on Signal Processing*, 60(4), 1585–1596.
257. Prieto, J., Mazuelas, S., Bahillo, A., Fernández, P., Lorenzo, R. M., & Abril, E. J. (2013) Accurate and Robust Localization in Harsh Environments Based on V2I

- Communication. In *Vehicular Technologies - Deployment and Applications*. INTECH Open Access Publisher.
258. Rafael Cauê Cardoso, Rafael Heitor Bordini. (2017) A Multi-Agent Extension of a Hierarchical Task Network Planning Formalism. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 2
 259. Raphael Cunha, Cleo Billa, Diana Adamatti (2017) Development of a Graphical Tool to integrate the Prometheus AEOLus methodology and Jason Platform. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 6, n. 2
 260. Rafi Ullah, Ayaz H. Khan, S.M. Emaduddin (2019) ck-NN: A Clustered k-Nearest Neighbours Approach for Large-Scale Classification. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 8, n. 3
 261. Ricardo Azambuja Silveira, Rafaela Lunardi Comarella, Ronaldo Lima Rocha Campos, Jonas Vian, Fernando De La Prieta (2015) Learning Objects Recommendation System: Issues and Approaches for Retrieving, Indexing and Recomend Learning Objects. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 4
 262. Ricardo Faia, Tiago Pinto, Zita Vale (2016) Dynamic Fuzzy Clustering Method for Decision Support in Electricity Markets Negotiation. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 5, n. 1
 263. Ricardo S. Alonso, Inés Sittón-Candanedo, Roberto Casado-Vara, Javier Prieto, Juan M. Corchado: Deep Reinforcement Learning for the management of Software-Defined Networks in Smart Farming. *COINS 2020*: 1-6
 264. Ricardo S. Alonso, Javier Prieto, Óscar García, Juan M. Corchado (2019) Collaborative learning via social computing. *Frontiers of IT & EE* 20(2): 265-282
 265. Ricardo Silveira, Guilherme Klein Da Silva Bitencourt, Thiago Ângelo Gelaim, Jerusa Marchi, Fernando De La Prieta (2015) Towards a Model of Open and Reliable Cognitive Multiagent Systems: Dealing with Trust and Emotions. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 4, n. 3
 266. Rishi Kumar Srivastav, Devendra Agrawal, Anurag Shrivastava (2020) A Survey on Vulnerabilities and Performance Evaluation Criteria in Blockchain Technology. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 9, n. 2
 267. Roberto Casado-Vara, Ángel Martín del Rey, Soffiene Affes, Javier Prieto, Juan M. Corchado: IoT network slicing on virtual layers of homogeneous data for improved algorithm operation in smart buildings. *Future Gener. Comput. Syst.* 102: 965-977 (2020)
 268. Roberto Casado-Vara, Fernando de la Prieta, Javier Prieto, Juan M. Corchado: Improving Temperature Control in Smart Buildings Based in IoT Network Slicing Technique. *GLOBECOM 2019*: 1-6
 269. Roberto Garcia-Martin, Alfonso González-Briones, Juan M. Corchado (2019) SmartFire: Intelligent Platform for Monitoring Fire Extinguishers and Their Building Environment. *Sensors* 19(10): 2390
 270. Rodolfo Salazar, José Carlos Rangel, Cristian Pinzón, Abel Rodríguez (2013) Irrigation System through Intelligent Agents Implemented with Arduino Technology. *ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal* (ISSN: 2255-2863), Salamanca, v. 2, n. 3
 271. Rodriguez-Fernandez J., Pinto T., Silva F., Praça I., Vale Z., Corchado J.M. (2018) Reputation Computational Model to Support Electricity Market Players Energy Contracts Negotiation. In: Bajo J. et al. (eds) *Highlights of Practical Applications of Agents, Multi-*

- Agent Systems, and Complexity: The PAAMS Collection. PAAMS 2018. Communications in Computer and Information Science, vol 887. Springer, Cham
272. Rodríguez, J. M. C. (2000) Neuro-symbolic model for real-time forecasting problems (Doctoral dissertation, University of Paisley)
 273. Rodríguez, S., De La Prieta, F., Tapia, D. I., & Corchado, J. M. (2010) Agents and computer vision for processing stereoscopic images. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) (Vol. 6077 LNAI) https://doi.org/10.1007/978-3-642-13803-4_12
 274. Rodríguez, S., Gil, O., De La Prieta, F., Zato, C., Corchado, J. M., Vega, P., & Francisco, M. (2010) People detection and stereoscopic analysis using MAS. In INES 2010 - 14th International Conference on Intelligent Engineering Systems, Proceedings. <https://doi.org/10.1109/INES.2010.5483855>
 275. Rodríguez, S., Tapia, D. I., Sanz, E., Zato, C., De La Prieta, F., & Gil, O. (2010) Cloud computing integrated into service-oriented multi-agent architecture. IFIP Advances in Information and Communication Technology (Vol. 322 AICT) https://doi.org/10.1007/978-3-642-14341-0_29
 276. Román, J. A., Rodríguez, S., & de la Prieta, F. (2016) Improving the distribution of services in MAS. Communications in Computer and Information Science (Vol. 616) https://doi.org/10.1007/978-3-319-39387-2_4
 277. Rosalía Laza, A. Gómez, Reyes Pavón, Juan M. Corchado (2002) A Case-Based Reasoning Approach to the Implementation of BDI Agents. ECCBR Workshops 2002: 27-30
 278. Saadi Bin Ahmad Kamaruddin, Nor Azura Md Ghanib, Choong-Yeun Liong, Abdul Aziz Jemain (2012) Firearm Classification using Neural Networks on Ring of Firing Pin Impression Images. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 1, n. 3
 279. Sandrine Mouysset, Ronan Guivarch, Joseph Noailles, Daniel Ruiz (2013) Segmentation of cDNA Microarray Images using Parallel Spectral Clustering. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 2, n. 1
 280. Satya Bhushan Verma, Abhay Kumar Yadav (2019) Detection of Hard Exudates in Retinopathy Images. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 4
 281. Sergio Márquez Sánchez (2020) Doll and robot use as innovative components in therapy. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 1
 282. Sergio Márquez Sánchez, Francisco Lecumberri, Vishwani Sati, Ashish Arora, Niloufar Shoeibi, Sara Rodríguez, Juan M. Corchado Rodríguez: Edge Computing Driven Smart Personal Protective System Deployed on NVIDIA Jetson and Integrated with ROS. PAAMS (Workshops) 2020: 385-393
 283. Sergio Márquez Sánchez, Roberto Casado-Vara, Francisco Javier García Criado, Sara Rodríguez-González, Javier Prieto Tejedor, Juan Manuel Corchado: Smart PPE and CPE Platform for Electric Industry Workforce. SOCO 2019: 422-431
 284. Sérgio Matos, Hugo Araújo, José Luís Oliveira (2013) Biomedical Literature Exploration through Latent Semantics. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 2, n. 2
 285. Sergio Miguel Tomé (2019) Towards a model-theoretic framework for describing the semantic aspects of cognitive processes. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 4
 286. SHADAB Siddiqui, MANUJ Darbari, Diwakar Yagyasen (2020) Modelling and Simulation of Queuing Models through the concept of Petri Nets. ADCAIJ: Advances in

- Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 3
287. Shefali Dhingra, Poonam Bansal (2019) An Intelligent Multi-Resolutional and Rotational Invariant Texture Descriptor for Image Retrieval Systems. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 8, n. 2
 288. Sigeru Omatu, Tatsuyuki Wada, Pablo Chamoso (2013) Odor Classification using Agent Technology. DCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 2, n. 4
 289. Silvia Rossi, Francesco Barile, Antonio Caso (2015) Dominance Weighted Social Choice Functions for Group Recommendations. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 4, n. 1
 290. Sittón, I., & Rodríguez, S. (2017) Pattern Extraction for the Design of Predictive Models in Industry 4.0. In International Conference on Practical Applications of Agents and Multi-Agent Systems (pp. 258–261)
 291. Sumit Goyal, Gyanendra Kumar Goyal (2013) Machine Learning ANN Models for Predicting Sensory Quality of Roasted Coffee Flavoured Sterilized Drink. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 2, n. 3
 292. Tan Yigitcanlar, Luke Butler, Emily Windle, Kevin C. Desouza, Rashid Mehmood, Juan M. Corchado: Can Building "Artificially Intelligent Cities" Safeguard Humanity from Natural Disasters, Pandemics, and Other Catastrophes? An Urban Scholar's Perspective. *Sensors* 20(10): 2988 (2020)
 293. Tapia, D. I., & Corchado, J. M. (2009) An ambient intelligence based multi-agent system for alzheimer health care. *International Journal of Ambient Computing and Intelligence*, v 1, n 1(1), 15–26. <https://doi.org/10.4018/jaci.2009010102>
 294. Tapia, D. I., Fraile, J. A., Rodríguez, S., Alonso, R. S., & Corchado, J. M. (2013) Integrating hardware agents into an enhanced multi-agent architecture for Ambient Intelligence systems. *Information Sciences*, 222, 47-65.
 295. Tiago Pinto, Hugo Morais, Juan Manuel Corchado (2019) Adaptive entropy-based learning with dynamic artificial neural network. *Neurocomputing* 338: 432-440
 296. Tiago Pinto, Ricardo Faia, María Navarro-Cáceres, Gabriel Santos, Juan Manuel Corchado, Zita A. Vale: Multi-Agent-Based CBR Recommender System for Intelligent Energy Management in Buildings. *IEEE Syst. J.* 13(1): 1084-1095 (2019)
 297. Tiancheng Li, Hongqi Fan, Jesús García Herrero, Juan M. Corchado: Second Order Statistics Analysis and Comparison between Arithmetic and Geometric Average Fusion. *CoRR* abs/1901.08015 (2019)
 298. Tiancheng Li, Hongqi Fan, Jesús García, Juan M. Corchado (2019) Second-order statistics analysis and comparison between arithmetic and geometric average fusion: Application to multi-sensor target tracking. *Information Fusion* 51: 233-243
 299. Tiancheng Li, Huimin Chen, Shudong Sun, Juan M. Corchado (2019) Joint Smoothing and Tracking Based on Continuous-Time Target Trajectory Function Fitting. *IEEE Trans. Automation Science and Engineering* 16(3): 1476-1483
 300. Tiancheng Li, Juan M. Corchado, Shudong Sun (2019) Partial Consensus and Conservative Fusion of Gaussian Mixtures for Distributed PHD Fusion. *IEEE Trans. Aerospace and Electronic Systems* 55(5): 2150-2163
 301. Tomonori Nakahara, Kohei Fukuyama, Mitsuru Hamada, Kenji Matsui, Yoshihisa Nakatoh, Yumiko O. Kato, Alberto Rivas, Juan Manuel Corchado: Mobile Device-Based Speech Enhancement System Using Lip-Reading. *DCAI 2020*: 159-167
 302. Valérien Guivarch, Valérie Camps, André Péninou (2012) AMADEUS: an adaptive multi-agent system to learn a user's recurring actions in ambient systems. ADCAIJ:

- Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 1, n. 3
303. Vicente Julián, Martí Navarro, Vicente Botti, Stella HERAS (2015) Towards Real-Time Argumentation. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 4, n. 4
 304. Víctor Corcoba Magaña, Mario Muñoz Organero, Juan Antonio Álvarez-García, Jorge Yago Fernández Rodríguez. (2017) Design of a Speed Assistant to Minimize the Driver Stress. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 6, n. 3
 305. Vincenza Cofini, Fernando De La Prieta, Tania Di Mascio, Rosella Gennari, Pierpaolo Vittorini (2012) Design Smart Games with requirements, generate them with a Click, and revise them with a GUIs. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 1, n. 3
 306. Xiomara Patricia Blanco Valencia, M. A. Becerra, A. E. Castro Ospina, M. Ortega Adarme, D. Viveros Melo, D. H. Peluffo Ordóñez (2017) Kernel-based framework for spectral dimensionality reduction and clustering formulation: A theoretical study.
 307. Yagnik A Rathod (2020) An access control and authorization model with Open stack cloud for Smart Grid. ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal (ISSN: 2255-2863), Salamanca, v. 9, n. 3
 308. Yeray Mezquita Martín, Alfonso González-Briones, Roberto Casado-Vara, Pablo Chamoso, Javier Prieto, Juan Manuel Corchado: Blockchain-Based Architecture: A MAS Proposal for Efficient Agri-Food Supply Chains. ISAmI 2019: 89-96
 309. Yeray Mezquita Martín, Amin Shokri Gazafroudi, Juan M. Corchado, Miadreza Shafie-Khah, Hannu Laaksonen, Aida Kamisalic: Multi-Agent Architecture for Peer-to-Peer Electricity Trading based on Blockchain Technology. ICAT 2019: 1-6
 310. Yeray Mezquita Martín, Diego Valdeolmillos, Alfonso González-Briones, Javier Prieto, Juan Manuel Corchado: Legal Aspects and Emerging Risks in the Use of Smart Contracts Based on Blockchain. KMO 2019: 525-535
 311. Yeray Mezquita Martín, Ricardo S. Alonso, Roberto Casado-Vara, Javier Prieto, Juan Manuel Corchado: A Review of k-NN Algorithm Based on Classical and Quantum Machine Learning. DCAI (Special Sessions) 2020: 189-198
 312. Yves Demazeau, Eric Matson, Juan Manuel Corchado, Fernando de la Prieta: Advances in Practical Applications of Survivable Agents and Multi-Agent Systems: The PAAMS Collection - 17th International Conference, PAAMS 2019, Ávila, Spain, June 26-28, 2019, Proceedings. Lecture Notes in Computer Science 11523, Springer 2019, ISBN 978-3-030-24208-4 [contents]
 313. Yves Demazeau, Tom Holvoet, Juan M. Corchado, Stefania Costantini: Advances in Practical Applications of Agents, Multi-Agent Systems, and Trustworthiness. The PAAMS Collection - 18th International Conference, PAAMS 2020, L'Aquila, Italy, October 7-9, 2020, Proceedings. Lecture Notes in Computer Science 12092, Springer 2020, ISBN 978-3-030-49777-4