

I. Personal Details

Name: José Hernández Palancar

Position: Deputy Director for Applied Researches of CENATAV

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II. Short Biography

Dr. Palancar graduated in Computer Sciences of Havana University in 1990. He finished his Doctoral Thesis in 1997. From 1998, he began to research in Parallel Computing, in the problem's solution of high computation complexity. In that period he developed some works with respect to the configuration and administration Beowulf's clusters, experience that has allowed him, to begin to work in the development of parallel algorithms and distributed processing infrastructures based on Linux operating system, to solve scientific problems for large volume of data.

Dr. Palancar works in the Advanced Technologies Application Centre (CENATAV) from 2003, place where he is a Senior Researcher and Deputy Director for Applied Researches, before he was the Head of Data Mining's Department. In CENATAV his research interests focus on Parallel Processing applied to Biometric Identification.

III. Research Interests

- Biometric systems and applications.
- Fingerprint, Palmprint.
- Parallel algorithms for biometric, data mining, and pattern recognition, on beowulf clusters, GPU or/and using reconfigurable hardware (FPGA).

IV. Affiliation

- Full Member of the Sciences Academy of Cuba.
- Member of the Cuban Association for Pattern Recognition (ACPR).
- Member of the International Association for Pattern Recognition (IAPR)

V. Academic Levels

- Ph.D. Mathematical Sciences, Havana, January 1997.
- Bachelor in Cybernetics-Mathematics, University of Havana, Cuba, July 1990.

VI. Academic Experience

- Senior Researcher, 1999-present.
- Full Member of the Sciences Academy of Cuba, from 2002.
- Member of the National Expert's Group for the Basic Sciences (Mathematics, Cybernetics, Physics and Chemistry), 2002-present.

- Head of Data Mining's Department, 2003-2006.
- Deputy Director for Applied Researches, 2006-present.
- Chairman of the Scientific Council of the Advanced Technologies Application Centre, 2004-2006.
- Coordinator of the Parallel Computing National Group, from 2005-2009.
- Member of Academic Committee of Doctorate in Parallel Computing, in collaboration with the Polytechnic University of Valencia, from 2004-2009.
- He supervised four Thesis of Master in Computer Sciences (INAOE, Mexico), and three Doctorate Thesis, linked to specific themes of Data Mining and Information Processing. He is now working with others four PhD students.

VII. Honors and Awards

- National Prize Medal "Carlos J. Finlay", State Council of the Cuban Republic. (2001)

VIII. Scientific Activities

Organization of Scientific Events

- Organizer of a National Workshop on Clusters and Parallel Programming imparted by two specialists of CECALCULA (Venezuela), Havana, Cuba, April 2005.
- Organizer of the First Cuba-Louisiana Workshop on Data Mining, Havana, Cuba, January 2006.
- Organizer of the Workshop on Computational Linguistic and Text Mining, in conjunction with the Computer Science Department. National Institute of Astrophysics, Optics and Electronics (INAOE), Mexico. September 2006, Havana, Cuba.
- Organizer of the Workshop on Data Mining and Multimedia Data, in conjunction with the Dr. Frans Coenen, from the Liverpool University, UK. January 2007, Havana, Cuba.
- Member of the CIARP'08 Local Organizing Committee, September 2008, Havana, Cuba.
- Member of the CIARP'13 Local Organizing Committee, November 2013, Havana, Cuba.

Participation in Scientific Events

He attended to the following scientific events:

- Ariadna-98, Telematics International Congress, Havana, Cuba, 1998.
- Italian – Cuban Seminar on Information Methods and Applications, Havana University, Cuba, 2000.
- The First National Congress of Patterns Recognition, Havana, Cuba, 2003.
- The International Conference on Data Mining (ICDM'04), Nov./2004. Brighton, UK.
- The First Latin American Workshop on Grid Computing, Mérida, Venezuela, 2004.
- The Second National Congress of Patterns Recognition, Havana, Cuba, 2003.
- The X International Convention "Informática 2004", Havana, Cuba.
- The XI International Convention "Informática 2005", Havana, Cuba.
- The Third National Congress of Patterns Recognition, Havana, Cuba, 2005.

- The X International Iberoamerican Conference on Progress in Pattern Recognition, Havana, Cuba, 2005.
- The Workshop on Porting Scientific Applications on Computational GRIDs, the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, 2006.
- The International Conference on Machine Learning and Data Mining (MLDM'07), Leipzig, Germany, July 2007.
- 14th International European Conference on Parallel and Distributed Computing. (Euro-Par 2008), Spain, August 2008.
- The XIII International Iberoamerican Conference on Progress in Pattern Recognition (CIARP'08), Havana, Cuba, 2008.
- Biometrics 2011, Exhibition and Conference, 19-20 October 2011, London, UK.
- Foro Internacional sobre Registro Civil e Identificación, Noviembre 2011, Buenos Aires, Argentina.
- TECNICRIM 2012. VIII Symposium of Cuban Forensic Techniques and. I Biometric Identification Workshop, La Habana, September 10 to 13, 2012.
- CITECNA 2012, Havana, Cuba.
- Informática 2013, Havana, Cuba.
- International Conference on Biometrics (ICB 2013), Spain.
- Biometrics, Exhibition and Conference 2013, UK.
- VIII Congreso Internacional de Biometría de la República Argentina, CIBRA 2013.
- 18th Iberoamerican Congress on Pattern Recognition, CIARP 2013, La Habana, Cuba.
- Biometrics, Exhibition and Conference 2014, UK.
- 19th Iberoamerican Congress on Pattern Recognition, CIARP 2014, Puerto Vallarta, Méjico.
- CITECNA 2014, Havana, Cuba.

IX. Publications

2015

- José Hernández Palancar, Alfredo Muñoz-Briseño: A New Fingerprint Indexing Algorithm for Latent and Non-latent Impressions Identification. CIARP 2015: 127-134
- Alfredo Muñoz-Briseño, Andrés Gago Alonso, José Hernández Palancar: Fingerprint Matching Using a Geometric Subgraph Mining Approach. CIARP 2015: 160-167
- Katy Castillo-Rosado, José Hernández Palancar: A New Ridge-Features-Based Method for Fingerprint Image Quality Assessment. CIARP 2015: 208-215
- Leonardo Chang, Airel Pérez Suárez, Máximo Rodríguez-Collada, José Hernández Palancar, Miguel O. Arias-Estrada, Luis Enrique Sucar: Assessing the Distinctiveness and Representativeness of Visual Vocabularies. CIARP 2015: 331-338

- José Kadir Febrer-Hernández, Raudel Hernández-León, José Hernández Palancar, Claudia Feregrino Uribe: SPaR-FTR: An Efficient Algorithm for Mining Sequential Patterns-Based Rules. CIARP 2015: 643-650
- José Kadir Febrer-Hernández, Raudel Hernández-León, José Hernández Palancar, Claudia Feregrino Uribe: Improving the Accuracy of the Sequential Patterns-Based Classifiers. CIARP 2015: 708-715

2014

- José Hernández-Palancar, Alfredo Muñoz-Briseño, Andrés Gago-Alonso: Using **A Triangular Matching Approach For Latent Fingerprint and Palmprint Identification**. International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI). Volume No.28, Issue No. 7, 2014.
- Hernández-León, R., Carrasco-Ochoa, J. A., Martínez-Trinidad, J. Fco., Hernández-Palancar, J.: **Combining Hybrid Rule Ordering Strategies based on Netconf and a novel satisfaction mechanism for CAR-based classifiers**, Journal Intelligent Data Analysis, 2014.
- *Armando Rodríguez Fonte, José Hernández-Palancar*: **Discriminating Fingerprint Images of Other Images**,. Proceedings of the 19th Iberoamerican Congress on Pattern Recognition (CIARP'2014), Puerto Vallarta, Mexico, LNCS, 2014.
- *Katy Castillo Rosado, José Hernández-Palancar*: **Rolled-plain fingerprint images classification**. to appear in Proceedings of the 19th Iberoamerican Congress on Pattern Recognition (CIARP'2014), Puerto Vallarta, Mexico, LNCS, 2014.
- José Manuel Bande Serrano, José Hernández Palancar, René Cumplido: **The evaluation of Ordered Features for SMS Spam Filtering**. Proceedings of the 19th Iberoamerican Congress on Pattern Recognition (CIARP'2014), Puerto Vallarta, Mexico, LNCS, 2014.
- Alfredo Muñoz, Andrés Gago, José Hernández Palancar: **Using reference point as feature for fingerprint indexing**. Proceedings of the 19th Iberoamerican Congress on Pattern Recognition (CIARP'2014), Puerto Vallarta, Mexico, LNCS, 2014.
- Leonardo Chang, Miguel Arias-Estrada, José Hernández Palancar, Luis Enrique Sucar: **Partial shape matching and retrieval under occlusion and noise**. Proceedings of the 19th Iberoamerican Congress on Pattern Recognition (CIARP'2014), Puerto Vallarta, Mexico, LNCS, 2014.

- Febrer-Hernández, J. K., Hernández-Palancar, J., Hernández-León, R., Feregrino-Uribe, C.: **SPaMi-FTS: An Efficient Algorithm for Mining Frequent Sequential Patterns**, Proceedings of XIX CIARP, 2014.
- Hernández-León, R., Hernández-Palancar, J., Carrasco-Ochoa, J. A., Martínez-Trinidad, J. Fco.: **Studying Netconf in Hybrid Rule Ordering strategies for Associative Classification**, in Proceedings of VI MCPR, Volume 8495 of the LNCS series, pp 51–60, 2014.
- Katy Castillo-Rosado, José Hernández-Palancar. **Clasificación de impresiones dactilares en planas o rodadas**. En: RECPAT 2014, Las Tunas, Cuba, 7-9 de Octubre de 2014.
- Alfredo Muñoz-Briseño, Andrés Gago-Alonso, José Hernández-Palancar. **La minería de subgrafos geométricos aplicada al cotejo de impresiones dactilares** En: RECPAT 2014, Las Tunas, Cuba, 7-9 de Octubre de 2014.
- Febrer-Hernández, J. K., Hernández-León, R., Hernández-Palancar, J.: **SPRITE: un nuevo algoritmo para la minería de secuencias frecuentes**, in CENATAV Technical Report, Number 26, 2013.

2013

- Alfredo Muñoz-Briseño, Andrés Gago Alonso, José Hernández Palancar: **Fingerprint indexing with bad quality areas**. Expert Syst. Appl. 40(5): 1839-1846 (2013)
- Andrés Gago Alonso, José Hernández Palancar, Ernesto Rodríguez-Reina, Alfredo Muñoz-Briseño: **Indexing and retrieving in fingerprint databases under structural distortions**. Expert Syst. Appl. 40(8): 2858-2871 (2013)
- José M. Bande, José Hernández Palancar, René Cumplido. **Multi-character cost-effective and high throughput architecture for content scanning**. Microprocessors and Microsystems, August 2013. DOI: 10.1016/j.micpro.2013.08.001.
- José Hernández-Palancar, Alfredo Muñoz-Briseño, Andrés Gago-Alonso. **A New Triangular Matching Approach for Latent Palmprint Identification**. In: Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications. Proceedings of 18th Iberoamerican Congress on Pattern Recognition, CIARP 2013, Havana, Cuba, November 20-23, 2013. José Ruiz-Shulcloper, Gabriella Sanniti di Baja (Eds.), Lecture Notes in Computer Science, Vol. 8259, Part II, 2013. Berlin Heidelberg, Springer-Verlag, 2013, pp. 294-301. ISBN 978-3-642-41827-3.
- Lázaro Bustio-Martínez, René Cumplido-Parra, José Hernández-Palancar, Claudia Feregrino-Uribe. **Accelerating frequent itemsets mining on data stream: a proposal**. In: 5th Mexican Conference on Pattern Recognition, MCPR 2013, PhD Student's Meeting, June 26-29, 2013, Querétaro, Mexico. José Arturo Olvera-López, et al. (Eds.). Research in Computing Science, vol. 61, April-June 2013, Special Issue: Advances in Pattern Recognition, pp. 3-12. ISSN: 1870-4059.

- Leonardo Chang, Miguel Arias-Estrada, L. Enrique Sucar, José Hernández-Palancar. **Efficient Local Shape Features Matching using CUDA**. In: GPU Technology Conference, GTC 2013, San Jose, California, March 18-21, 2013.
- José Manuel Bande Serrano, José Hernández Palancar, René Cumplido. **High Throughput Signature Based Platform for Network Intrusion Detection**. In: Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications. Proceedings of 18th Iberoamerican Congress on Pattern Recognition, CIARP 2013, Havana, Cuba, November 20-23, 2013. José Ruiz-Shulcloper, Gabriella Sanniti di Baja (Eds.), Lecture Notes in Computer Science, Vol. 8259, Part II, 2013. Berlin Heidelberg, Springer-Verlag, 2013, pp. 544-551. ISBN 978-3-642-41827-3.
- Lázaro Bustio Martínez, René Cumplido Parra, José Hernández Palancar, Claudia Feregrino Uribe. **Arquitectura hardware-software para acelerar el entrenamiento de SVM**. En: II Conferencia Internacional de Ciencias Computacionales e Informáticas, CICC 2013, La Habana, Cuba, 18-22 de marzo de 2013. 8 p. ISBN: 978-959-7213-02-4.
- José Kadir Febrer Hernández, José Hernández Palancar. **Estado del Arte de los Algoritmos Incrementales para la Minería de Secuencias Frecuentes**. En: II Conferencia Internacional de Ciencias Computacionales e Informáticas, CICC 2013, La Habana, Cuba, 18-22 de marzo de 2013. 9 p. ISBN: 978-959-7213-02-4.
- Yadira Font Rezk, José Kadir Febrer Hernández, José Hernández Palancar. **Plataforma Comparativa para Algoritmos de Minería de Secuencias Frecuentes**. En: II Conferencia Internacional de Ciencias Computacionales e Informáticas, CICC 2013, La Habana, Cuba, 18-22 de marzo de 2013. 8 p. ISBN: 978-959-7213-02-4.
- Raudel Hernández León, José Hernández Palancar. **CAR-IC y CAR-NF: Nuevos clasificadores basados en CARs**. RT_018, agosto 2013, 45 p. CENATAV, Serie Gris, Reporte Técnico Minería de Datos, versión digital RNPS No. 2143. ISSN 2072-6260.
- Yaniela Fernández Mena, Raudel Hernández León, José Hernández Palancar. **Clasificación basada en reglas de asociación de clase para flujos de datos: un estado del arte**. RT_021, octubre 2013. CENATAV, Serie Gris, Reporte Técnico Minería de Datos, versión digital RNPS No. 2143. ISSN 2072-6260.
- Katy Castillo Rosado, Armando Rodríguez Fonte, José Hernández Palancar. **Fingerprint Feature Extraction**. RT_055, octubre 2013. CENATAV, Serie Azul, Reporte Técnico Reconocimiento de Patrones, versión digital RNPS No. 2142. ISSN 2072-6287.

2012

- Raudel Hernández-León, Jesús A. Carrasco-Ochoa, José Fco. Martínez-Trinidad, José Hernández-Palancar. “**Classification based on specific rules and inexact coverage**”. Expert Systems with Applications, Volume 39, Number 12, pp. 11203 - 11211 (2012).
- José Manuel Bande Serrano, José Hernández Palancar. “**String Alignment Pre-detection using Unique Subsequences for FPGA-based Network Intrusion**

Detection". Journal Computer Communications, Volume 35 Issue 6, March, 2012, pages 720-728.

- José Kadir Febrer Hernández, José Hernández Palancar. "**Sequential pattern mining algorithms review**". Journal Intelligent Data Analysis (IDA), ISSN: 1088-467X, Volume 16 Issue 3, January 2012, pages 451-466.
- Raudel Hernández-León, José Hernández-Palancar, Jesús A. Carrasco-Ochoa, José Fco. Martínez-Trinidad. "**CAR-NF+: An improved versión of CAR-NF classifier**". (To appear) Lecture Notes in Computer Science, CIARP (2012).
- Raudel Hernández-León, José Hernández-Palancar. "**CAR-IC y CAR-NF: Nuevos clasificadores basados en CARs**". (To appear) Reporte Técnico, CENATAV (2012).
- Raudel Hernández-León, Jesús A. Carrasco-Ochoa, José Fco. Martínez-Trinidad, José Hernández-Palancar. "**CAR-NF: A classifier based on specific rules with high Netconf**". Intelligent Data Analysis. Volume 16, Number 1, pp. 49-68 (2012).
- Leonardo Chang Fernández, José Hernández Palancar, "**Características locales de forma para la clasificación de objetos.**", En: X Congreso Nacional de Reconocimiento de Patrones, RECPAT 2012, Camaguey, Cuba, 22-23 de octubre de 2012.
- Raudel Hernández-León, José Hernández-Palancar. "**Nuevas estrategias híbridas de ordenamiento de reglas para Clasificación Asociativa**". , En: X Congreso Nacional de Reconocimiento de Patrones, RECPAT 2012, Camaguey, Cuba, 22-23 de octubre de 2012.

2011

- Alfredo Muñoz-Briseño, Andrés Gago-Alonso, José Hernández-Palancar, "**State of the art of fingerprint indexing algorithms**". Revista Computación y Sistemas, Instituto Politécnico Nacional, México, Vol. 15, No. 1, 2011.
- Raudel Hernández León, Jesús Ariel Carrasco Ochoa, José Hernández Palancar. "**Desarrollo de Clasificadores basados en Reglas de Asociación de Clase**". Tesis de Doctor en Ciencias, Especialidad en Computación, Instituto Nacional de Astrofísica Óptica y Electrónica (INAOE), (2011).
- Alfredo Muñoz-Briseño, Andrés Gago-Alonso, José Hernández Palancar. "**State of the art of fingerprint indexing algorithms**". En: VIII Congreso Nacional de Reconocimiento de Patrones, RECPAT 2010, Ciego de Ávila, Cuba, 27 de febrero-3 de marzo de 2011.
- Alejandro Mesa, Claudia Feregrino-Uribe, René Cumplido Parra, José Hernández Palancar, "**A High Performance FPGA Hardware Architecture for Frequent Itemset Mining**", En: VIII Congreso Nacional de Reconocimiento de Patrones, RECPAT 2010, Ciego de Ávila, Cuba, 27 de febrero-3 de marzo de 2011.
- Leonardo Chang, José Hernández-Palancar. "**Detección de puntos de interés del SIFT usando hardware reconfigurable**". RECPAT 2010, Ciego de Ávila, Cuba, 27 de febrero-3 de marzo de 2011.
- Jose M. Bande, Lázaro Bustio Martínez, Jose Hernández Palancar. "**Arquitectura Hardware-Software para acelerar el cálculo del producto punto en matrices binarias dispersas**", Taller de Hardware Reconfigurable, 2011, CUJAE

2010

- Raudel Hernández-León, Jesús Ariel Carrasco-Ochoa, José Francisco Martínez Trinidad, José Hernández Palancar: **Classifying Using Specific Rules with High Confidence.** *MICAI (Special Sessions) 2010*: 75-80
- Raudel Hernández-León, José Hernández Palancar, Jesús Ariel Carrasco-Ochoa, José Francisco Martínez Trinidad: **Algorithms for mining frequent itemsets in static and dynamic datasets.** *Intell. Data Anal.* 14(3): 419-435 (2010)
- Lazaro Bustio-Martinez, René Cumplido, Claudia Feregrino-Uribe and José Hernández-Palancar. **On the Design of a Hardware-Software Architecture for acceleration of SVM's training phase.** 2nd Mexican Conference on Pattern Recognition (MCPR 2010)
- Alejandro Mesa, Claudia Feregrino-Uribe, René Cumplido and José Hernández-Palancar. **A Highly Parallel Algorithm for Frequent Itemset Mining.** 2nd Mexican Conference on Pattern Recognition (MCPR 2010).
- José Carlos Almagro Rosell y José Hernández Palancar. **Algoritmos paralelos para el descubrimiento de secuencias frecuentes, cerradas y maximales.** RT_013, abril 2010. CENATAV, Serie Gris, Reporte Técnico Minería de Datos, versión digital RNPS No. 2143. ISSN 2072-6260. 36 p.
- Raudel Hernández-León, Jesús A. Carrasco-Ochoa, José Hernández-Palancar y José F. Martínez-Trinidad. **Desarrollo de Clasificadores basados en Reglas de Asociación.** Reporte Técnico No. CCC-10-002, Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE), Puebla, México, 2010. 26 p.
- Raudel Hernández León, José Hernández Palancar, Jesús A. Carrasco Ochoa y José Fco. Martínez Trinidad. **Descubrimiento de conjuntos frecuentes de ítems en datos estáticos y dinámicos.** RT_006, agosto 2010. CENATAV, Serie Gris, Reporte Técnico Minería de Datos, versión digital RNPS No. 2143. ISSN 2072-6260. 38 p.
- Ricardo Enrique Serrano Callaba y José Hernández Palancar. **Estado actual de la indexación en espacios métricos aplicado al reconocimiento de rostros.** RT_030, abril 2010. CENATAV, Serie Azul, Reporte Técnico Reconocimiento de Patrones, versión digital RNPS No. 2142. ISSN 2072-6287. 46 p.
- José Alejandro Somoza Chuay y José Hernández Palancar. **Estado actual de la paralelización de algoritmos utilizando FPGAs para minería de texto.** RT_014, abril 2010. CENATAV, Serie Gris, Reporte Técnico Minería de Datos, versión digital RNPS No. 2143. ISSN 2072-6260. 27 p.
- Danis López Naranjo y José Hernández Palancar. **Estado actual de los algoritmos de reconocimiento de rostro usando tecnología GPU.** RT_031, junio 2010. CENATAV, Serie Azul, Reporte Técnico Reconocimiento de Patrones, versión digital RNPS No. 2142. ISSN 2072-6287. 29 p.
- Cynthia Costales Llerandi y José Hernández Palancar. **Estado del arte de la extracción de entidades nombradas.** RT_011, marzo 2010. CENATAV, Serie Gris, Reporte Técnico Minería de Datos, versión digital RNPS No. 2143. ISSN 2072-6260. 42 p.
- Carlos Javiel Moya Cribeiro y José Hernández Palancar. **Minería de flujos de datos a altas velocidades.** RT_012, abril 2010. CENATAV, Serie Gris, Reporte Técnico Minería de Datos, versión digital RNPS No. 2143. ISSN 2072-6260. 23 p.
- José Manuel Bande Serrano y José Hernández Palancar. **Paralelización de Algoritmos utilizando Hardware Reconfigurable para la Identificación de Cadenas en Flujos de Datos.** Aceptado para publicar en Serie Gris, septiembre 2010.

- Ernesto Rodríguez Reina y José Hernández Palancar. **Plataforma paralela y tolerante a fallos para el procesamiento de grandes volúmenes de datos**. Reporte Técnico, Diciembre 2010. CENATAV.
- Alejandro Mesa Rodríguez. **"Arquitectura Hardware para el Descubrimiento de Conjuntos Frecuentes"**. Tesis de Maestría. Instituto Nacional de Astrofísica, Óptica y Electrónica, México. 2010.
- Lázaro Bustio Martínez, Asesores: René Cumplido, José Hernández Palancar. **"Arquitectura hardware-software para acelerar el entrenamiento de SVM"**. Tesis de Maestría. Instituto Nacional de Astrofísica, Óptica y Electrónica, México. 2010.

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- Raudel Hernández León, José Hernández Palancar, Jesús A. Carrasco-Ochoa, José Francisco Martínez-Trinidad: **"Algorithms for Mining Frequent Itemsets in Static and Dynamic Datasets"**. Accepted for publication in Journal of Intelligent Data Analysis. volume 14(3) del 2010.
- Leonardo Chang Fernández, José Hernández Palancar **"A Hardware Architecture for SIFT Candidate Keypoints Detection"**, CIARP-2009, LNCS 5856, 15-18 November, Guadalajara, Mexico.

2008

- José Hernández Palancar, Raudel Hernández León, José E. Medina Pagola, Abdel Hechavarría Díaz: **"A Compressed Vertical Binary Algorithm for Mining Frequent Patterns"**. Lin, T.Y., Xie, Y., Wasilewska, A., Liau, C.-J. (Eds.), *Data Mining: Foundations and Practice*, Vol. 118, pp. 197-212, 2008, ISBN 978-3-540-78487-6.
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2007

- José Hernández Palancar, Oscar. Fraxedas Tormo, Javier Festón Cárdenas and Raudel Hernández León: **"Distributed and Shared Memory Algorithm for Parallel Mining of Association Rules"**. *Proceedings of MLDM 2007*, LNCS, Springer-Verlag, 2007.
- José E. Medina Pagola, Ansel Y. Rodríguez, Abdel Hechavarría and José Hernández Palancar: **"Document Representation using Global Association Distance Model"**. *Proceedings of ECIR 2007*, LNCS, Springer-Verlag, 2007.
- José Hernández Palancar, Raudel Hernández León, José E. Medina Pagola: **"Compressed Arrays Algorithm for Frequent Patterns"**. Proceedings del II Simposio Internacional sobre Tecnologías de la Información en Organizaciones Informacionales, editorial "Samuel Feijóo", ISBN 978-959-250-326-7.

2006

- Ernesto Guevara Martínez, José E. Medina Pagola, José Hernández Palancar: **"Nuevo Modelo de Representación de Textos: Grafos de Asociación"**. Revista Ing. Industrial, Vol. XXVII, No. 2-3/2006, 2006.

2005

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Documents using Association Graphs”, LNCS, Springer-Verlag. CIARP 2005, November, Havana, Cuba.

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- José Hernández Palancar, Raudel Hernández Leon, Jose E. Medina Pagola and Abdel Hechavarría Díaz, "Mining Frequent Patterns Using Compressed Vertical Binary Representations", Proceedings of Workshop “Foundation of Semantic Oriented Data and Web Mining”, ICDM-05, (ISBN 0-9738918-7-4), November, Houston, USA.

2004

- José Hernández Palancar, Iris Rodríguez Gil, “Experiencias en la administración de clusters Beowulf de tipo diskless”. Panel of the International Symposium of Open Source Software, X International Convention “Informática 2004”, May, Havana, Cuba.
- José Hernández Palancar, “Estado Actual de la aplicación de la Computación Paralela a la Minería de Datos”, Technical Report, Gray Serie, CENATAV, 2004