



Guillermo Sánchez Díaz

Profesor-Investigador (
UASLP
)

reconocimiento de patrones
aprendizaje automático
minería de datos

	All	Since 2019
Citations	549	213
h-index	14	9
i10-index	23	6

TITLE	CITED BY	YEAR
Shortest-length and coarsest-granularity constructs vs. reducts: An experimental evaluation MS Lazo-Cortés, G Sanchez-Díaz, NNA Ortega International Journal of Approximate Reasoning 170, 109187		2024
¿ Pueden pensar las computadoras usando inteligencia artificial? GS DÍAZ Revista Universitarios Potosinos, 7-7		2023
A review of algorithms to computing irreducible testors applied to feature selection G Sanchez-Díaz, MS Lazo-Cortes, CA Aguirre-Salado, I Piza-Davila, ... Artificial Intelligence Review 55 (8), 6607-6628	4	2022
Modeling spatial pattern of dengue in North Central Mexico using survey data and logistic regression D Sánchez-Hernández, CA Aguirre-Salado, G Sánchez-Díaz, ... International Journal of Environmental Health Research 31 (7), 872-888	6	2021
Effect of cathodic protection on reinforced concrete with fly ash using electrochemical noise J García-Contreras, C Gaona-Tiburcio, I López-Cazares, G Sánchez-Díaz, ... Materials 14 (9), 2438	10	2021
An algorithm for computing minimum-length irreducible testors I Piza-Dávila, G Sánchez-Díaz, MS Lazo-Cortés, I Villalón-Turrubiates IEEE Access 8, 56312-56320	9	2020
El corretaje inmobiliario en San Luis Potosí: una perspectiva de género MLC Romero, EC Nieto, GCB Turrent, GS Díaz Tlatemoani: revista académica de investigación 11 (35), 170-185		2020
Enhancing the performance of YYC algorithm useful to generate irreducible testors I Piza-Davila, G Sanchez-Díaz, MS Lazo-Cortes, C Noyola-Medrano International Journal of Pattern Recognition and Artificial Intelligence 32 ...	8	2018
A CUDA-based hill-climbing algorithm to find irreducible testors from a training matrix I Piza-Davila, G Sanchez-Díaz, MS Lazo-Cortes, L Rizo-Dominguez Pattern Recognition Letters 95, 22-28	10	2017
Locating Potential Zones for Cultivating <i>Stevia rebaudiana</i> in Mexico: Weighted Linear Combination Approach JJ Silva-Gallegos, CA Aguirre-Salado, L Miranda-Aragón, ... Sugar Tech 19, 206-218	13	2017
¿ Hacia dónde crecerá la ciudad de San Luis Potosí (México) después de 2009? D Amuzurrutia-Valenzuela, C Aguirre-Salado, G Sánchez-Díaz Eure (Santiago) 41 (124), 113-117	16	2015
Modelling site selection for tree plantation establishment under different decision scenarios CA Aguirre-Salado, JR Valdez-Lazalde, G Sánchez-Díaz, ...	17	2015

TITLE	CITED BY	YEAR
Journal of Tropical Forest Science, 298-313		
A parallel hill-climbing algorithm to generate a subset of irreducible testors I Piza-Davila, G Sanchez-Diaz, CA Aguirre-Salado, MS Lazo-Cortes Applied Intelligence 42, 622-641	10	2015
On the relation between rough set reducts and typical testors MS Lazo-Cortés, JF Martínez-Trinidad, JA Carrasco-Ochoa, ... Information Sciences 294, 152-163	37	2015
Computing constructs by using typical testor algorithms MS Lazo-Cortés, JA Carrasco-Ochoa, JF Martínez-Trinidad, ... Pattern Recognition: 7th Mexican Conference, MCPR 2015, Mexico City, Mexico ...	4	2015
Are reducts and typical testors the same? MS Lazo-Cortés, JF Martínez-Trinidad, JA Carrasco-Ochoa, ... Iberoamerican Congress on Pattern Recognition, 294-301	2	2014
An evolutionary algorithm with acceleration operator to generate a subset of typical testors G Sanchez-Diaz, G Diaz-Sanchez, M Mora-Gonzalez, I Piza-Davila, ... Pattern Recognition Letters 41, 34-42	15	2014
Mapping aboveground biomass by integrating geospatial and forest inventory data through a k-nearest neighbor strategy in North Central Mexico CA Aguirre-Salado, EJ Treviño-Garza, OA Aguirre-Calderón, ... Journal of Arid Land 6, 80-96	29	2014
An algorithm for computing typical testors based on elimination of gaps and reduction of columns A Lias-Rodriguez, G Sanchez-Diaz International Journal of Pattern Recognition and Artificial Intelligence 27 ...	28	2013
Incremental k most similar neighbor classifier for mixed data G Sánchez-Díaz, UE Escobar-Franco, LR Morales-Manilla, I Piza-Dávila, ... Revista Facultad de Ingeniería Universidad de Antioquia, 19-30	2	2013
Un algoritmo de clasificación incremental basado en los k vecinos más similares para datos mezclados G Sánchez-Díaz, UE Escobar-Franco, LR Morales-Manilla, I Piza-Dávila, ... Revista Facultad de Ingeniería Universidad de Antioquia, 19-30	5	2013
Decision tree based classifiers for large datasets A Franco-Arcega, JA Carrasco-Ochoa, G Sánchez-Díaz, ... Computación y Sistemas 17 (1), 95-102	16	2013
Easy categorization of attributes in decision tables based on basic binary discernibility matrix MS Lazo-Cortés, JF Martínez-Trinidad, JA Carrasco-Ochoa, ... Progress in Pattern Recognition, Image Analysis, Computer Vision, and ...	5	2013
A Fast Implementation for the Typical Testor Property Identification Based on an Accumulative Binary Tuple M Lazo-Cortés, G Sánchez-Díaz, HI Piza-Dávila Taylor & Francis Online		2012
Forest Cover Mapping in North-Central Mexico: A Comparison of Digital Image Processing Methods CA Aguirre-Salado, EJ Treviño-Garza, OA Aguirre-Calderón, ... GIScience & remote sensing 49 (6), 895-914	11	2012

TITLE	CITED BY	YEAR
A fast implementation for the typical testor property identification based on an accumulative binary tuple G Sanchez-Diaz, M Lazo-Cortes, I Piza-Davila International Journal of Computational Intelligence Systems 5 (6), 1025-1039	19	2012
Parallel k-most similar neighbor classifier for mixed data G Sanchez-Diaz, A Franco-Arcega, C Aguirre-Salado, I Piza-Davila, ... Intelligent Data Engineering and Automated Learning-IDEAL 2012: 13th ...		2012
Building fast decision trees from large training sets A Franco-Arcega, JA Carrasco-Ochoa, G Sánchez-Díaz, ... Intelligent Data Analysis 16 (4), 649-664	27	2012
Decision tree induction using a fast splitting attribute selection for large datasets A Franco-Arcega, JA Carrasco-Ochoa, G Sánchez-Díaz, ... Expert Systems with Applications 38 (11), 14290-14300	20	2011
Typical testors generation based on an evolutionary algorithm HI Piza-Dávila, G Sánchez-Díaz, M Mora-González, O Reyes-Cardenas, ... Springer		2011
Typical testors generation based on an evolutionary algorithm G Diaz-Sanchez, I Piza-Davila, G Sanchez-Diaz, M Mora-Gonzalez, ... Intelligent Data Engineering and Automated Learning-IDEAL 2011: 12th ...	17	2011
Multivariate decision trees using different splitting attribute subsets for large datasets A Franco-Arcega, JA Carrasco-Ochoa, G Sánchez-Díaz, ... Advances in Artificial Intelligence: 23rd Canadian Conference on Artificial ...	5	2010
Radon transform algorithm for fingerprint core point detection M Mora-González, JC Martínez-Romo, J Muñoz-Maciel, G Sánchez-Díaz, ... Advances in Pattern Recognition: Second Mexican Conference on Pattern ...	9	2010
A fast implementation of the CT_EXT algorithm for the testor property identification G Sanchez-Diaz, I Piza-Davila, M Lazo-Cortes, M Mora-Gonzalez, ... Advances in Soft Computing: 9th Mexican International Conference on ...	19	2010
The incremental voting algorithm INC-ALVOT for supervised classification U Escobar Franco, G Sánchez Díaz Revista Facultad de Ingeniería Universidad de Antioquia, 195-204		2009
Algoritmo de votación incremental INC-ALVOT para clasificación supervisada U Escobar Franco, G Sánchez Díaz Revista Facultad de Ingeniería Universidad de Antioquia, 195-204	3	2009
Algoritmo de votacion incremental INCALVOTpara clasificacion supervisada GS Díaz		2009
A new incremental algorithm for induction of multivariate decision trees for large datasets A Franco-Arcega, JA Carrasco-Ochoa, G Sánchez-Díaz, ... Intelligent Data Engineering and Automated Learning-IDEAL 2008: 9th ...	4	2008
CT EXT: an external escale algorithm for generated typical testors G Sanchez-Diaz, M Lazo-Cortes CIARP, 506-514	6	2007
Cmos digital pixel for binary morphological edge segmentation J Garcia-Lamont, EN Vazquez-Acosta, G Sanchez-Diaz, ... Electronics, Robotics and Automotive Mechanics Conference (CERMA 2007), 266-270	1	2007

TITLE	CITED BY	YEAR
Suboptimal control based on hill-climbing method for time delay systems O Santos, G Sanchez-Diaz IET Control Theory & Applications 1 (5), 1441-1450	11	2007
FS-EX plus: a new algorithm for the calculation of typical FS-testor set LR Morales-Manilla, G Sanchez-Diaz Progress in Pattern Recognition, Image Analysis and Applications: 12th ...	2	2007
CT-EXT: an algorithm for computing typical testor set G Sanchez-Díaz, M Lazo-Cortés Progress in Pattern Recognition, Image Analysis and Applications: 12th ...	28	2007
An invariant approach for image recognition E Zuñiga-Segura, G Sánchez-Díaz Electronics, Robotics and Automotive Mechanics Conference (CERMA'06) 2, 30-34	2	2006
An Incremental Clustering Algorithm Based on Compact Sets with Radius α A Pons-Porrata, GS Díaz, ML Cortés, LA Ramírez Progress in Pattern Recognition, Image Analysis and Applications: 10th ...	7	2005
An image resizing algorithm for binary maps L Morales-Manilla, G Sanchez-Diaz, R Soto Proceedings of the Fifth Mexican International Conference in Computer ...	6	2004
A new clustering criterion in pattern recognition. M Lopez-Caviedes, G Sanchez-Diaz WSEAS Transactions on Computers 3 (3), 558-562	7	2004
AN EXTENSIBLE DATA MINING AND PATTERN RECOGNITION SYSTEM G Sanchez-Diaz, A Ramirez-Narvaez IASTED International Conference on Computer Science and Technology, 245-248		2003
Determination of similarity threshold in clustering problems for large data sets G Sánchez-Díaz, JF Martínez-Trinidad Progress in Pattern Recognition, Speech and Image Analysis: 8th ...	4	2003
Modificaciones al algoritmo bt para mejorar sus tiempos de ejecucion GS Díaz, ML Cortés Ciencias Matemáticas 20 (2), 129-137		2002
Modifying BT algorithm for improving its runtimes G Sánchez Díaz, M Lazo Cortés Revista Ciencias Matemáticas 20 (2), 129-136	9	2002
Clustering Mixed Incomplete Data J Ruiz-Shulcloper, G Sánchez-Díaz, MA Abidi Heuristic and Optimization for Knowledge Discovery, 89-106	8	2002
A clustering method for very large mixed data sets G Sánchez-Díaz, J Ruiz-Shulcloper Proceedings 2001 IEEE International Conference on Data Mining, 643-644	13	2001
LC: a conceptual clustering algorithm JF Martínez-Trinidad, G Sánchez-Díaz International Workshop on Machine Learning and Data Mining in Pattern ...	17	2001
Desarrollo de algoritmos para el agrupamiento de grandes volúmenes de datos mezclados G Sánchez-Díaz Tesis doctoral, Centro de Investigación en Computación, México	5	2001

TITLE	CITED BY	YEAR
MID mining: a logical combinatorial pattern recognition approach to clustering in large data sets G Sánchez-Díaz, J Ruiz-Shulcloper Proceedings of the 5th Iberoamerican Symposium on Pattern Recognition ...	11	2000
DGLC: a density-based global logical combinatorial clustering algorithm for large mixed incomplete data J Ruiz-Shulcloper, E Alba-Cabrera, G Sánchez-Díaz IGARSS 2000. IEEE 2000 International Geoscience and Remote Sensing Symposium ...	4	2000
Genetic algorithm for calculating typical testors of minimal cost G Sanchez-Díaz, M Lazo-Cortes, O Fuentes-Chavez Proc. of the Iberoamerican Symposium on Pattern Recognition (SIARP 1999 ...	14	1999
Program and Design of Efficient algorithms to calculate typical testors from a basic matrix G Sánchez Díaz M. Sc Thesis BUAP	4	1997
Desarrollo y programación de algoritmos eficientes (secuenciales y paralelos) para el cálculo de los testores típicos de una matriz básica G Sánchez Díaz Tesis de Maestría en Ciencias de la Computación, BUAP, Puebla, México	5	1997
¿ Qué es un testor? GS Díaz, MSL Cortés, NNA Ortega		
Evaluación de la relevancia de los rasgos en un problema de clasificación supervisada a partir de todos los testores ML Cortés, GS Díaz, TQ Gómez IV Simposio Iberoamericano de Reconocimiento de Patrones. Conferencia ...	5	