

Autor(es): Pérez-Ortega, Joaquín; Pazos-Rangel, Rodolfo A.; Cruz-Reyes, Laura; Reyes-Salgado, Gerardo; Basave-T., Rosy; Fraire-Huacuja, Hector.

This article proposes an improvement using a new convergence condition that consists of stopping the execution when a local optimum is found or no more object exchanges among groups can be performed. For assessing the improvement attained, the modified algorithm (Early Stop K-means) was tested on six databases of the UCI repository, and the results were compared against SPSS, Weka and the standard K-means algorithm.

REVISTA: Computational Science and Its Applications - Springer Verlag (pags. 674-682), MÉXICO; ISSN: 0302-9743;

DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007/978-3-540-74484-9_58

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)

2006-05-08

SoapFS: A Multiplatform File System

Autor(es): Sosa, Víctor Jesús; Pazos, Rodolfo A.; González, Juan G.; Cáceres, Santos; Cruz-Reyes, Laura; Guillen, Mario

This work presents SoapFS, a file system that is able to manage information in a heterogeneous environment such as the Internet. This paper shows how a set of functions available in SoapFS allows the development of robust and heterogeneous distributed applications that involve remote data retrieval and storage.

REVISTA: Lectures Notes in Computer Science - Springer-Verlag (pags. 18-27), MÉXICO; ISSN: 0302-9743; INDEXADO EN: JCR

DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007/11751588_3

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)

2005-01-01

An Approach for Solving Very Large Scale Instances of the Design Distribution Problem for distributed DataBase Systems.

Autor(es): Pérez, Joaquín; Pazos, Rodolfo A.; Frausto-Solís, Juan; Reyes, Gerardo; Santaolaya, Rene; Fraire, Héctor

Joaquín; Cruz-Reyes, Laura

In this paper we deal with the solution of very large instances of the design distribution problem for distributed databases.

REVISTA: Lectures Notes in Computer Science - Springer-Verlag (pags. 33-42), MÉXICO; ISSN: 0302-9743; INDEXADO EN: JCR

DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007%2F11533962_4

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)

2004-08-09

An Ordered Preprocessing Scheme for Data Mining.

Autor(es): Cruz-Reyes, Laura; Pérez, Joaquín; Landero, Vanesa; Del Angel, Elizabeth; Álvarez, Victor M.; Peréz, Verónica

In this paper we propose an ordered scheme to combine various important methods of data preprocessing. The aim is to increase the accuracy of the most used classification algorithms.

REVISTA: Lectures Notes in Artificial Intelligence - Springer-Verlag (pags. 1007-1008), MÉXICO; ISSN: 0302-9743; INDEXADO EN: JCR

DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007%2F978-3-540-28633-2_137

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)

2004-08-02

A Machine Learning Approach for Modeling Algorithm Performance Predictors.

Autor(es): Perez, Joaquín; Pazos, Rodolfo A.; Frausto, Juan; Cruz-Reyes, Laura; Fraire, Hector; Santiago, Elizabeth; García, Norma E.

This paper deals with heuristic algorithm selection, which can be stated as follows: given a set of solved instances of a NP-hard problem, for a new instance to predict which algorithm solves it better.

REVISTA: Lectures Notes in Artificial Intelligence - Springer-Verlag (pags. 70-80), MÉXICO; ISSN: 0302-9743; INDEXADO EN: JCR

DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007/978-3-540-27774-3_8

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)

2004-05-25

A Statistical Approach for Algorithm Selection.

Autor(es): Pérez, Joaquín; Pazos, Rodolfo; Frausto, Juan; Rodríguez, Guillermo; Romero, David; Cruz-Reyes, Laura

This paper deals with heuristic algorithm characterization, which is applied to the solution of an NP-hard problem, in order to select the best algorithm for solving a given problem instance.

REVISTA: Lectures Notes in Computer Science - Springer-Verlag (pags. 417-431), MÉXICO; ISSN: 0302-9743; INDEXADO EN: JCR

DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007/978-3-540-24838-5_31

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)

2004-05-14

Comparison and Selection of Exact and Heuristic Algorithms.

Autor(es): Pérez, Joaquín; Pazos, Rodolfo; Frausto, Juan; Rodríguez, Guillermo; Cruz-Reyes, Laura; Fraire, Héctor

The method presented in this paper, builds a predictive model of the algorithms behavior using functions that relate performance to problem size, in order to define dominance regions. This method generates first a representative sample of the algorithms performance, then using a common and simplified regression analysis determines performance functions, which are finally incorporated into an algorithm selection mechanism.

REVISTA: Lectures Notes in Computer Science - Springer-Verlag (pags. 415-424), MÉXICO; ISSN: 0302-9743; INDEXADO EN: JCR

DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007/978-3-540-24767-8_43

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)