

- REVISTA: Computación y Sistemas - *Scielo* (pags. 349-360), MÉXICO; ISSN: 1405-5546; INDEXADO EN: CONACYT
DIRECCION ELECTRÓNICA: <http://www.scielo.org.mx/pdf/cys/v16n3/v16n3a9.pdf>
PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)
- 2012-06-01
Scatter search with multiple improvement methods for the linear ordering problem
Autor(es): Fraire-Huacuja, Héctor Joaquín; Castilla-Valdez, Guadalupe; Pazos-Rangel, Rodolfo A.; González-Barbosa, Javier; Cruz-Reyes, Laura; Carpio-Valadez, Juan Martín; Puga-Soberanes, Héctor José; Terán-Villanueva, David
In this paper, we propose a Scatter Search algorithm which uses multiple improvement methods to achieve a better balance of intensification and diversification.
REVISTA: Malaysian Journal of Computer Science - *Malaysian Journal of Computer Science* (pags. 76-89), MÉXICO; ISSN: 0127-9084; INDEXADO EN: JCR
DIRECCION ELECTRÓNICA: http://umepublication.um.edu.my/filebank/published_article/4601/1227.pdf
PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)
- 2012-05-01
Solution to the Social Portfolio Problem by Evolutionary Algorithms
Autor(es): Gómez-Santillán, Claudia; Rivera-Zarate, Gilberto; Cruz-Reyes, Laura; García-Rodríguez, Rogelio; Balderas-Jaramillo, Fausto; Fernández-González, Eduardo; López-Irarragorri, Fernando
This paper describes an optimization algorithm that steers the search process towards such solutions. The performance of the algorithm is evaluated with respect to the most related algorithm found in the state of the art.
REVISTA: International Journal of Combinatorial Optimization Problems and Informatics - *Editorial Académica Dragón Azteca* (pags. 21-30), MÉXICO; ISSN: 2007-1558;
DIRECCION ELECTRÓNICA: <http://www.ijcopi.org/ojs/index.php?journal=ijcopi&page=article&op=viewFile&path%5B%5D=96&path%5B%5D=147>
PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)
- 2012-01-01
Impact of Initial Tuning for Algorithm That Solve Query Routing
Autor(es): Gómez-Santillán, Claudia; Cruz-Reyes, Laura; Rivera-Zarate, Gilberto; González-Barbosa, Juan Javier; Quiróz-Castellanos, Marcela
This work uses Hoeffding race techniques, with the objective to obtain the best initial combination of variables to use it as an input configuration.
REVISTA: Management Intelligent Systems, Advances in Intelligent Systems and Computing - *Springer Berlin Heidelberg* (pags. 315-323), MÉXICO; ISSN: 2194-5357;
DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007/978-3-642-30864-2_30
PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)
- 2011-11-26
Hyperheuristic for the Parameter Tuning of a Bio-Inspired Algorithm of Query Routing in P2P Networks.
Autor(es): Hernández-Hernández, Paula; Gómez-Santillán, Claudia; Cruz-Reyes, Laura; Ochoa-Ortiz Zezzatti, Carlos Alberto; Castillo-García, Norberto; Rivera-Zarate, Gilberto
This paper deals the parameters tuning in dynamic and large-scale conditions for an algorithm that solves the Semantic Query Routing Problem (SQRP) in peer-to-peer networks. In order to solve SQRP, the HH_AdaNAS algorithm is proposed, which is an ant colony algorithm that deals synchronously with two processes.
REVISTA: Advances in Soft Computing - *Springer Verlag* (pags. 119-130), MÉXICO; ISSN: 0302-9743;
DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007%2F978-3-642-25330-0_11
PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)
- 2011-11-26
Improving the Performance of Heuristic Algorithms Based on Causal Inference
Autor(es): Quiróz-Castellanos, Marcela; Cruz-Reyes, Laura; Torres-Jiménez, José; Gómez-Santillán, Claudia; López-Locés, Mario César; Carrillo-Ibarra, Jesús Eduardo; Castilla-Valdez, Guadalupe
In this paper, we show the application of causal inference to the algorithmic optimization process through an experimental analysis to assess the impact of the parameters that control the behavior of a heuristic algorithm. As a case study we present an analysis of the main parameters of one state of the art procedure for the Bin Packing Problem (BPP).
REVISTA: Advances in Soft Computing - *Springer Verlag* (pags. 137-148), MÉXICO; ISSN: 0302-9743;
DIRECCION ELECTRÓNICA: http://link.springer.com/chapter/10.1007%2F978-3-642-25324-9_12
PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)
- 2011-06-15
Survey of Polynomial Transformations between NP-Complete problems.
Autor(es): Ruiz-Vanoye, Jorge A.; Pérez-Ortega, Joaquín; Pazos, Rodolfo A.; Díaz-Parra, Ocotlán; Frausto-Solis, Juan; Fraire-Huacuja, Hector J.; Cruz-Reyes, Laura; Martínez-Flores, José A.
This paper aims at being a guide to understand polynomial transformations and polynomial reductions between NP-complete problems by presenting the methodologies for polynomial reductions/transformations and the differences between reductions and transformations.
REVISTA: Journal of Computational and Applied Mathematics - *Elsevier* (pags. 4851-4865), MÉXICO; ISSN: 0377-0427;
INDEXADO EN: JCR
DIRECCION ELECTRÓNICA: <dx.doi.org/10.1016/j.cam.2011.02.018>
PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)
- 2011-05-23
Enhancing Accuracy of Hybrid Packing Systems through General-Purpose Characterization