

EXTENSO DE CVU-TECNM

Curriculum: IT16A839

Fecha de nacimiento:

País de nacimiento: México

Género:

CURP:

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Registro 2016-01-25 10:54:43:

ADSCRIPCIONES A TECNOLÓGICO NACIONAL DE MÉXICO

1978-02-01 INSTITUTO TECNOLÓGICO DE CIUDAD MADERO

- Profesor en División de Estudios de Posgrado e Investigación (1978-02-01 - Actualidad)

TÍTULOS ACADÉMICOS

2005-04-04

DOCTORADO, Doctorado en Ciencias en Ciencias de la Computación, CEDULA: Nacional de Investigación y Desarrollo Tecnológico

LUGAR DE ESTUDIOS: Centro

PRODUCTIVIDAD ACADÉMICA

ARTÍCULO

2018-09-04

A NOVEL MULTI-OBJECTIVE EVOLUTIONARY ALGORITHM WITH FUZZY LOGIC BASED ADAPTIVE SELECTION OF OPERATORS: FAME

Autor(es): Santiago-Pineda, Alejandro; Dorronsoro, Bernabé; Nebro, Antonio; Durillo, Juan; Castillo, Oscar; Fraire, Héctor

We propose a new method for multi-objective optimization, called Fuzzy Adaptive Multi-objective Evolutionary algorithm (FAME). It makes use of a smart operator controller that dynamically chooses the most promising variation operator to apply in the different stages of the search. This choice is guided by a fuzzy logic engine, according to the contributions of the different operators in the past. FAME also includes a novel effective density estimator with polynomial complexity, called Spatial Spread Deviation (SSD). Our proposal follows a steady-state selection scheme and includes an external archive implementing SSD to identify the candidate solutions to be removed when it becomes full. To assess the performance of our proposal, we compare FAME with a number of state of the art algorithms (MOEA/D-DE, SMEA, SMPSoHv, SMS-EMOA, and BORG) on a set of difficult problems. The results show that FAME achieves the best overall performance.

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

2018-07-12

A NOVEL FORMULATION OF ORTHOGONAL POLYNOMIAL KERNEL FUNCTIONS FOR SVM CLASSIFIERS: THE GEGENBAUER FAMILY

Autor(es): Padierna-García, Luis Carlos; Carpio-Valadez, Martín; Rojas-Domínguez, Alfonso; Puga-Soberanes, Héctor; Fraire-Huacuja, Héctor

Orthogonal polynomial kernels have been recently introduced to enhance support vector machine classifiers by reducing their number of support vectors. Previous works have studied these kernels as isolated cases and discussed only particular aspects. In this paper, a novel formulation of orthogonal polynomial kernels that includes and improves previous proposals (Legendre,