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Short Communication

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Intelligent Classifier of Patterns for celestial bodies using a Twodimensional approach

Raul Jimenez Cruz

Instituto Politécnico Nacional, México

Abstract:

Human curiosity towards astronomy in recent decades has allowed the development of great technological advances, which has helped to deepen the knowledge of celestial bodies. Unfortunately, there are still certain inconsistencies in the terminology and classification, therefore this paper proposes the possibility of an intelligent classification based on the features of celestial bodies instead of calculating their electromagnetic fields. Physical criteria are proposed obtained from the data bank of the Digital Sky Survey which was modified in the Kaggle data repository for discrimination between different body classes. The classification obtained has some advantages, especially in the reduction of time and lower computational cost on KNN (K Neighbors Classifier), SVM, Naive Bayes Classifier, Decision Tree Classifier and Random Forest Classifier.

Biography:

Raul has completed his Master degree at the age of 25 years, currently he is studying his PhD from Centro de Investigación en computación of IPN. He is a teacher and he has published some papers.

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