عنوان مقاله:

Fuzzy Classifcation of Imbalanced Data Sets to Medical Diagnosis

محل انتشار:

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تعداد صفحات اصل مقاله: 5

نویسندگان: Mostafa Fathi Ganji - Faculty of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran

Mohammad Saniee Abadeh - Faculty of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran

Mahdi Hedayati - Institute for Endocrine Science, Shahid Beheshti University of Medical Science, Tehran, Iran

.Nuredine Bakhtiari - Department of Biochemistry, Tarbiat Modares University, Tehran. Iran

خلاصه مقاله:

In this paper we have proposed a new method for medical diagnosis which is a hybridization of fuzzy logic and Ant Colony Optimization (ACO). At first, we utilize an oversampling method to balance the input datasets. Then, a set of fuzzy rules are discovered by using of an ACO algorithm. These fuzzy rules are made up our classifier. In next stage, testing samples are classified by an averaging based fuzzy engine. Our results indicate that the proposed method is .efficient as a decision support tool for medical diagnosis

کلمات کلیدی:

Keywords-Medical Daignosis; Ant Colony Optimization; Fuzzy Classification; Imbalance Datasets

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