

Special Issue

Latest Trends Related to Imbalanced Classification Problems in Data Mining: New Approaches and Applications

Message from the Guest Editor

As you know, many real-world classification problems are characterized by a highly imbalanced distribution of samples among the classes. In these problems, one class (the minority class) contains a much smaller number of samples than the other classes (the majority classes). Class imbalance constitutes a difficulty for most learning algorithms which assume an approximately balanced class distribution and are biased toward the learning and recognition of the majority classes. As a result, minority class samples usually tend to be misclassified. This Special Issue is focused on papers dealing with the imbalanced classification problem in data mining. Research topics can include but are not limited to: 1) New approaches to deal with imbalanced classification problems; 2) Applications of existing or new methods in the imbalanced classification framework; 3) Studies on class imbalance combined with other problems affecting the data; 4) Theoretical/experimental reviews of classic and recent approaches in imbalanced classification; 5) Negative and confirmatory results of existing scientific publications related to imbalanced classification.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2021)



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