

Special Issue

Class-Imbalance and Cost-Sensitive Learning

Message from the Guest Editor

Dear colleagues, Cost-sensitive learning is identified as one of the top 10 challenging problems in data mining research. Different from cost-insensitive learning, cost-sensitive learning takes a large variety of different types of costs, including misclassification costs, test costs, teaching (labeling) costs, computation costs, and human-computer interaction costs, into consideration. The goal of this type of learning is to minimize the total costs. It is one of the most active and important research areas in machine learning, and it plays an important role in real-world data mining applications, such as medical diagnoses and defect detection. The main challenges in the field of cost-sensitive learning include class-imbalanced cost-sensitive learning, active cost-sensitive learning, semisupervised cost-sensitive learning, multiclass cost-sensitive learning, and so on. Submissions should be original and unpublished. Extended versions of conference publications will be considered if they contain at least 50% new content.

Guest Editor

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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