

**NUMTA 2023 Special Session on  
Numerical optimization and machine learning**

In the last years, a remarkable research work has been performed in different related disciplines aiming at conceiving general models for machine learning. Some research issues in this area are pattern classification, regression estimation and novelty detection. In particular, the objective of pattern classification is to decide—on the basis of appropriate attributes—whether an object belongs to exactly one among several classes. Such a general definition has allowed the researchers to propose diverse mathematical formulations for classification purposes with application in many fields. Some well-known examples are object recognition in machine vision, gene expression profile analysis, DNA and protein analysis and many others.

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