

# Optimizare globală cu Maple

Valeriu Anisiu

22.10.2015

## **Abstract**

We shall present three packages providing Global Optimization in Maple. The rather new field of Global Optimization (GO) deals with mathematical programming problems, in the (possible) presence of multiple local optima. There are a few mathematical software which offer functions for this purpose. We shall use three such programs accessible from Maple: Optimization, Direct Search and Global Optimization. Several concrete applications will be presented, showing the strength and weakness of these programs. Some of the problems are of geometric nature, allowing easy visualization.