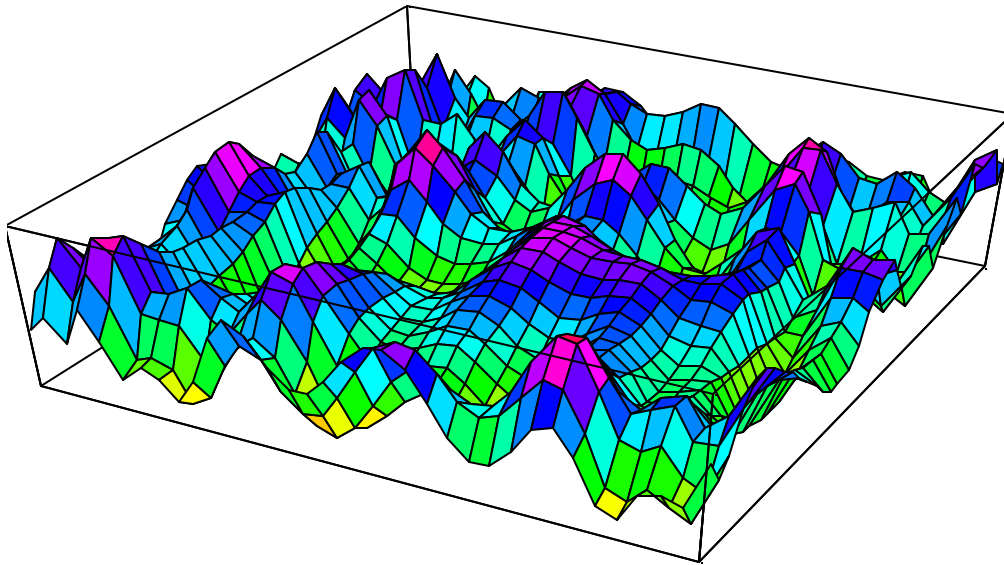


LGO: An Integrated Model Development and Solver System for Global and Nonlinear Optimization

Pintér Consulting Services Inc., Halifax, NS, Canada



Global Optimization (GO) is aimed at finding the absolutely best solution in complex nonlinear models. Applying advanced GO tools often leads to much improved decisions, when compared to local solutions found by traditional numerical methods. (The picture above shows a global optimization model in just two variables, and it clearly illustrates the potential difficulty of such problems.)

The **LGO** software product is based on award-winning research. **LGO** is used worldwide by industry, consultants, research institutions, and universities.

Main LGO Features

- problems are solved under the most general structural assumptions, specifically including 'black box' (very complex or confidential) models
- integrated suite of advanced global and local solver options
- automatic and interactive operational modes
- User's Guide; model development samples; technical support
- Microsoft Windows compatible version — fully integrated development environment for model formulation, solution and analysis

- 'Silent' implementations— callable from user applications
- Customized implementations, and native code development for other platforms are also available

LGO Development

The **LGO** algorithm and software development work is based on research done by János D. Pintér. Dr. Pintér is a well-recognized author and software developer in the area of global optimization. His related work includes

'Global Optimization in Action'

Kluwer Academic Publishers, 1996, an 508-page research monograph (<http://www.wkap.nl/book.htm/0-7923-3757-3>) and

'Computational Global Optimization in Nonlinear Systems'

Lionheart Publishing, Atlanta, GA 30339 USA, a 59-page short tutorial book and software demonstrations (this work is available also electronically) (<http://www.lionhrtpub.com/books/globaloptimization.html>)

as well as other edited books and over 130 thirty research publications.

Dr. Pintér serves on the Editorial Board of the **Journal of Global Optimization** since its 1991 foundation, and received the **2000 INFORMS Computing Society Prize for Research Excellence**.

Contact Information

Demonstration program copies and further information is available upon request. Please contact

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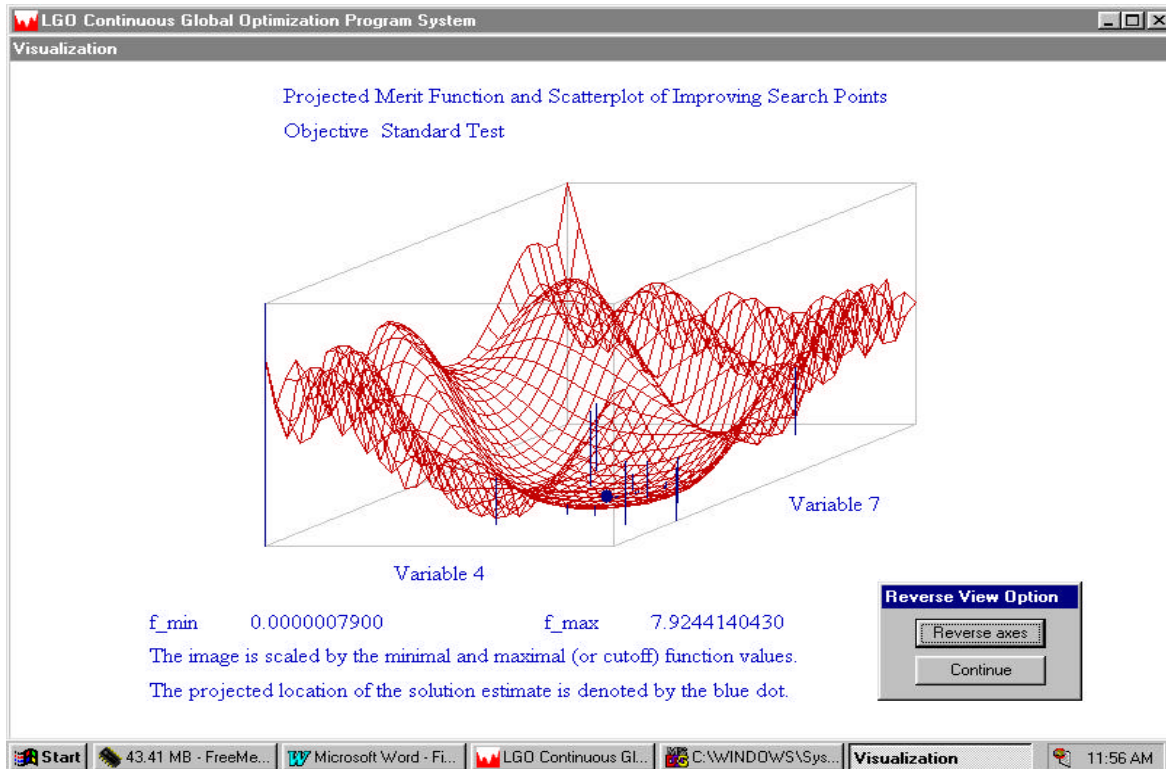
Phone/Fax: 1-(902)-443-5910

E-mail: jdpinter@hfx.eastlink.ca

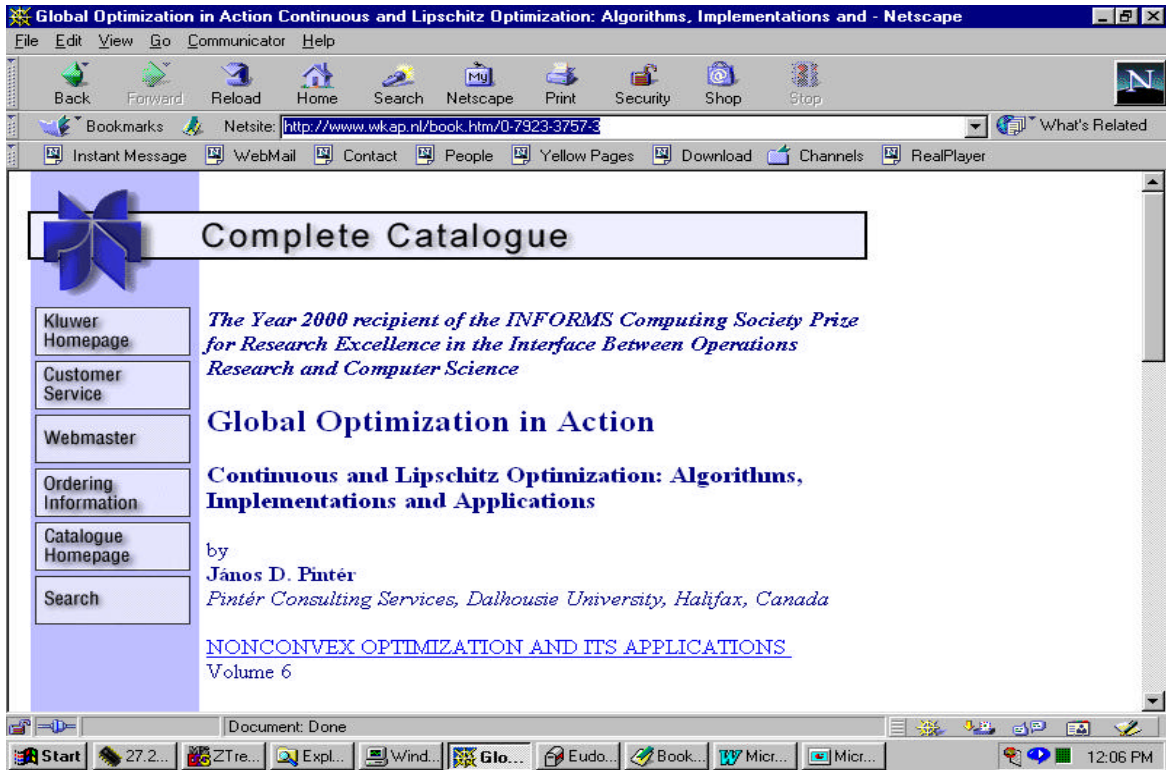
WWW Homepage: <http://is.dal.ca/~jdpinter/>



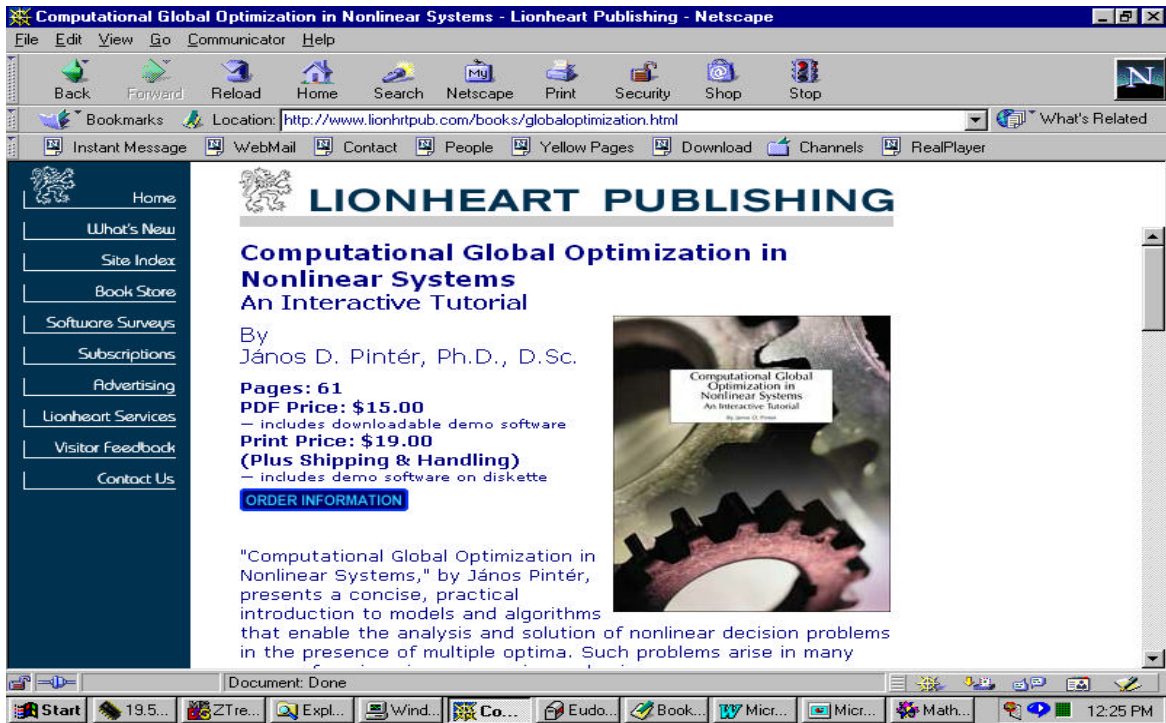
LGO User Interface: Main Menu



Visual Model Analysis Using LGO



Web page for 'Global Optimization in Action'



Web page for 'Computational Global Optimization in Nonlinear Systems'