



Nuorium Optimizer

We are NTT DATA Mathematical System Inc. that specialize in problem solving using mathematical science.

Our mathematical modeling language (SIMPLE) and optimizer have been improved as tools to solve practical problems such as portfolio optimization, scheduling and ad assignment for over 20 years.

PySIMPLE is an implementation of our mathematical modeling language/solver in python. It has all the essential functions as a mathematical optimization tool, such as concise model description using mathematical expressions, separation of data and models, linkage of multiple models, etc.

Visit the PySIMPLE website (search for "msi PySIMPLE" and translate it into your language with Google Chrome), where you can find some features of the package, tutorials and many examples.

The screenshot shows a Jupyter notebook with a sidebar on the left containing a 'Table of Contents' for '1. Introduction' and '1.1. For PySIMPLE'. The main content area displays the PySIMPLE documentation, including a 'Table of Contents' and a 'Quick search' bar. A central blue box lists applications, and the bottom right shows a Gantt chart and a network diagram.

Applications

- Constrained recommendation
- Production scheduling considering transportation
 - Production planning
 - Vehicle patrol schedule setting
- Warehouse Allocation and Delivery Planning
- Practical cutting stock problem
- Production and Delivery Locations
 - Staff scheduling

About NTT DATA Mathematical Systems Inc.

【Business】

Package Development and Sales/ Entrusted Development/Analysis and Consulting services using mathematical & computer science.

Data Mining
Machine Learning

Text Mining

Numerical Optimization

Simulations

Technical and Scientific Computing

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