



DESDEO

DESDEO is a free and open source Python-based framework for developing and experimenting with interactive multiobjective optimization. Solving both simulation-based and data-driven problems is of interest.

Interactive methods are useful tools for decision support in finding the most preferred balance among conflicting objectives. They support the decision maker in gaining insight in the trade-offs among the conflicting objectives. The decision maker can also conveniently learn about the feasibility of one's preferences and update them, if needed.

DESDEO contains implementations of some interactive methods and modules that can be utilized to implement further methods.

We welcome you to utilize DESDEO and develop it further with us.

The interactive methods currently implemented in DESDEO:

- The synchronous NIMBUS method
- Different variants of the NAUTILUS method family

Coming soon:

- NAUTILUS Navigator
- Evolutionary algorithms:
 - * Interactive RVEA
 - * Interactive K-RVEA
- Surrogate-based methods:
 - * ANOVA-MOP
 - * Surrogate-ASF



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DESDEO brings interactive methods closer to researchers and practitioners world-wide, by providing them with implementations of interactive methods.

DESDEO is part of DEMO (Decision analytics utilizing causal models and multiobjective optimization) which is the thematic reserach area of the University of Jyväskylä.

jyu.fi/demo



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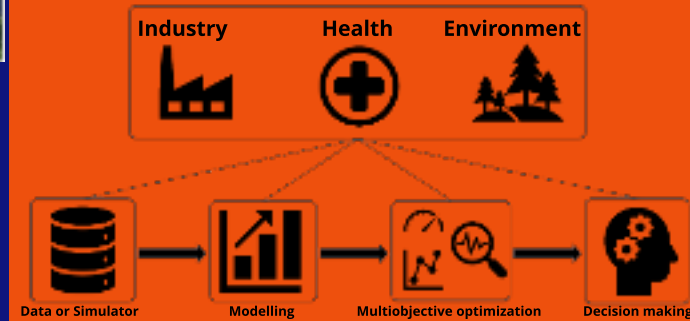
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DESDEO

Interactive Multiobjective Optimization Methods for Decision Support

desdeo.it.jyu.fi



Open source software framework



github.com/industrial-optimization-group

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