



Optimization Methods in Metabolic Networks

Costas D. Maranas, Ali R. Zomorodi

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Provides a tutorial on the computational tools that use mathematical optimization concepts and representations for the curation, analysis and redesign of metabolic networks

- Organizes, for the first time, the fundamentals of mathematical optimization in the context of metabolic network analysis
- Reviews the fundamentals of different classes of optimization problems including LP, MILP, MLP and MINLP
- Explains the most efficient ways of formulating a biological problem using mathematical optimization
- Reviews a variety of relevant problems in metabolic network curation, analysis and redesign with an emphasis on details of optimization formulations
- Provides a detailed treatment of bilevel optimization techniques for computational strain design and other relevant problems

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