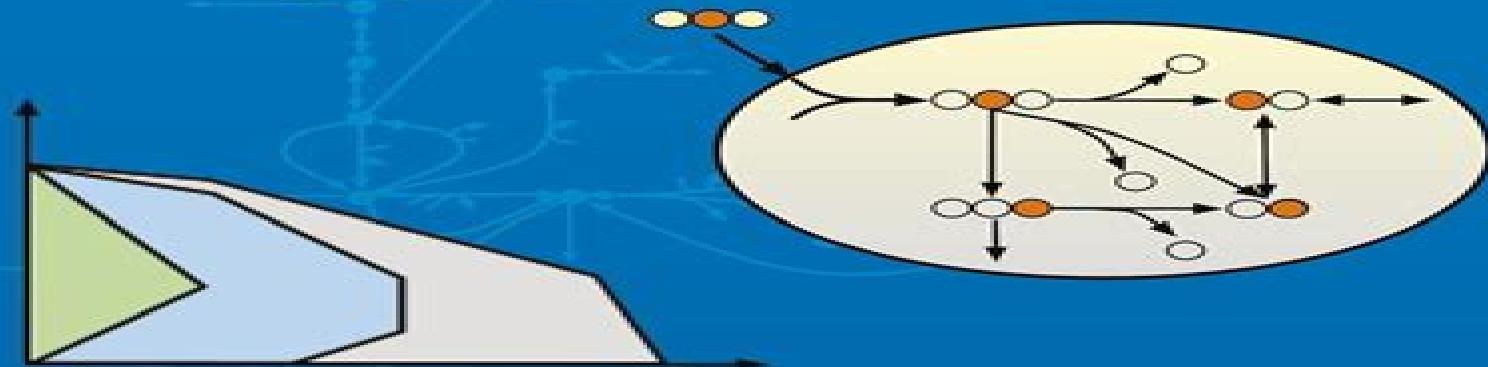


# Optimization Methods in Metabolic Networks



Costas D. Maranas  
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Mohd Saberi Mohamad,Miguel P. Rocha,Florentino Fdez-Riverola,Francisco J. Domínguez Mayo,Juan F. De Paz,2016-05-31 Biological and biomedical research are increasingly driven by experimental techniques that challenge our ability to analyse process and extract meaningful knowledge from the underlying data The

impressive capabilities of next generation sequencing technologies together with novel and ever evolving distinct types of omics data technologies have put an increasingly complex set of challenges for the growing fields of Bioinformatics and Computational Biology The analysis of the datasets produced and their integration call for new algorithms and approaches from fields such as Databases Statistics Data Mining Machine Learning Optimization Computer Science and Artificial Intelligence Clearly Biology is more and more a science of information requiring tools from the computational sciences In the last few years we have seen the surge of a new generation of interdisciplinary scientists that have a strong background in the biological and computational sciences In this context the interaction of researchers from different scientific fields is more than ever of foremost importance boosting the research efforts in the field and contributing to the education of a new generation of Bioinformatics scientists PACBB 16 hopes to contribute to this effort promoting this fruitful interaction PACBB 16 technical program included 21 papers spanning many different sub fields in Bioinformatics and Computational Biology Therefore the conference will certainly promote the interaction of scientists from diverse research groups and with a distinct background computer scientists mathematicians biologists The scientific content will certainly be challenging and will promote the improvement of the work being developed by each of the participants

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Guiying Zhang,2008    **AICHE Symposium Series** American Institute of Chemical Engineers,2000    [Proceedings of the National Academy of Sciences of the United States of America](#) National Academy of Sciences (U.S.),2007    [IEE Proceedings ,2006 Chemical Engineering Progress](#) ,2009

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