

Mathematical programming formulations and metaheuristics for biological sample transportation problems in healthcare

Mario Benini ^{*} Paolo Detti [†] Garazi Zabalo Manrique de Lara [‡]

Abstract

In this paper, a problem arising from a real-world healthcare application is addressed, dealing with the transportation of biological samples from blood draw centers to a main laboratory. The problem can be modeled as a Vehicle Routing Problem with time-windows and samples lifetime constraints, in which transfers and multiple visits at specific nodes (i.e., the spokes) are allowed to get extra lifetimes of the samples. Mixed Integer Linear Programming formulations and *Hybrid Adaptive Large Neighborhood Search* (H-ALNS) algorithms have been developed for the

^{*}Department of Information Engineering and Mathematics, University of Siena, Via Roma, 56, 53100 Siena, Italy.
e-mail: mbenini@diism.unisi.it

[†]Department of Information Engineering and Mathematics, University of Siena, Via Roma, 56, 53100 Siena, Italy.
e-mail: detti@diis.unisi.it

[‡]Department of Information Engineering and Mathematics, University of Siena, Via Roma, 56, 53100 Siena, Italy.
e-mail: garazizml@gmail.com

Mathematical Problems In The Biological

Sol I. Rubinow



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Mathematical Problems in the Biological Sciences, 1962 *Mathematical Problems in the Biological Sciences*, 1962 *Mathematical Problems in the Biological Sciences* AMS., American Mathematical Society, 1962 Mathematical Problems in the Biological Sciences Sol I. Rubinow, 1973-01-01 This book represents a small and highly selective sample of the quantitative approach to biology The author encourages the reader to disseminate further the cause of mathematics applied to the biological sciences *Mathematical Problems in Biology* P. van den Driessche, 2013-03-08 A conference on Some Mathematical Problems in Biology was held at the University of Victoria Victoria B C Canada from May 7 10 1973 The participants and invited speakers were mathematicians interested in problems of a biological nature and scientists actively engaged in developing mathematical models in biological fields One aim of the conference was to attempt to assess what the recent rapid growth of mathematical interaction with the biosciences has accomplished and may accomplish in the near future The conference also aimed to expose the problems of communication between mathematicians and biological scientists and in doing so to stimulate the interchange of ideas It was recognised that the topic spans an enormous breadth and little attempt was made to balance the very diverse areas Widespread active interest was shown in the conference and just over one hundred people registered The varied departments and institutions across North America from which the participants came made it both academically and geographically mixed The chief activity of the conference was the presentation of papers Nine invited guest speakers see table of contents each gave a one hour talk These covered a wide range of topics There were twenty five shorter twenty minute contributed papers and almost all papers were followed by a five minute question and discussion period Duplicated abstracts of presented papers were available at the meeting An evening informal discussion meeting of participants chaired by Dr A B Tayler and led by Drs E M Hagneier E C Mathematical Problems in the Biological Sciences Sol I. Rubinow, 1978 *Mathematical Problems in the Biological Sciences*, 1962 Some Mathematical Problems in Biology, 1974 *Mathematical Problems in Biology* P. van den Driessche, 2014-01-15 Some Mathematical Problems in Biology Symposium on Mathematical Biology, 1 st, Washington, D.C., 1966, 1968 Some Mathematical Problems in Biology, 1968-12-31 Presents a model for biological clocks and covers topics in ecology and evolutionary genetics *Some Mathematical Problems in Biology*, 1968 **Mathematical Problems in the Biological Sciences** American Mathematical Society, 1962 **Mathematical Problems in the Biological Sciences**, 1962 **Mathematical Problems in the Biological Sciences** Richard Ernest Bellman, 1962 Mathematical Problems in the Biological Sciences, V14 American Mathematical Society, 2012-05-19 Contributing Authors Include H D Landahl Edward F Moore Marvin L Minsky And Many Others Held In New York City April 5 8 1961 *Proceedings of Symposia in Applied Mathematics* Symposium in Applied Mathematics of the American Mathematical Society (14, 1961, New York City), 1962 Mathematical Ideas in Biology J. Maynard Smith, 1968-11 An introduction to some of the mathematical ideas which are useful to biologists

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