

Research Article

Engineering Design by Geometric Programming

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A geometric program (GP) is a type of mathematical optimization problem characterized by objective and constraint functions, where all functions are of signomial form. The importance of GP comes from two relatively recent developments: (i) new methods can solve even large-scale GP extremely efficiently and reliably; (ii) a number of practical problems have recently been found to be equivalent to or approximated by GP. This study proposes an optimization approach for solving GP. Our approach is first to convert all signomial terms in GP into convex and concave terms. Then the concave terms are further treated with the proposed piecewise linearization method where only $\lceil \log_2(m-1) \rceil$ binary variables are used. It has the following features: (i) it offers more convenient and efficient means of expressing a piecewise linear function; (ii) fewer 0-1 variables are used; (iii) the computational results show that the proposed method is much more efficient and faster than the conventional one, especially when the number of break points becomes large. In addition, the engineering design problems are illustrated to evaluate the usefulness of the proposed methods.

1. Introduction

Consider the following geometric program (GP) [1]:

$$\min f_0(x) \quad (1)$$

$$\text{s.t. } f_k(x) \leq 1, \quad k = 1, 2, \dots, p, \quad (2)$$

$$g_l(x) = 1, \quad l = 1, 2, \dots, q, \quad (3)$$

$$x = (x_1, x_2, \dots, x_n), \quad (4)$$

where $g_l(x)$, $l = 1, 2, \dots, q$, are monomials as in (5), $a_l \geq 0$, and the exponential constants $\alpha_{il} \in \mathbb{R}$, $i = 1, 2, \dots, n$, $l = 1, 2, \dots, q$:

$$g_l(x) = a_l \prod_{i=1}^n x_i^{\alpha_{il}} \quad (5)$$

and $f_k(x)$, $k = 0, 1, \dots, p$, are posynomials as in (6) which are sum of one or more monomials, $c_{ik} \geq 0$, and $\alpha_{ik} \in \mathbb{R}$, $i = 1, 2, \dots, n$, $h = 1, 2, \dots, H_k$, $k = 0, 1, \dots, p$:

$$f_k(x) = \sum_{i=1}^{H_k} c_{ik} \prod_{j=1}^n x_j^{\alpha_{ij}}. \quad (6)$$

GP has been applied in many fields of applications including analog/digital circuit design [2–8], chemical engineering [9–11], mechanical engineering [12–19], power control [20], and communication network systems [21–23].

Obtaining the optimal solutions for GP is not straightforward because the signomial terms in the objective function and constraints cannot be solved directly. As a result, many approaches have been developed. Coello and Cortés [24] proposed a genetic algorithm with an artificial immune system to solve a GP in engineering optimization. Nevertheless, this method can only obtain the local optima. Horst and Tuy [25] introduced an analytical approach for solving a problem with Lipschitzian objective and constraints. The restriction of this approach is to find the global optimum only if the range of variables can be reduced by analytical techniques. Serali and Tuncbilek [26] developed a reformulation-linearization technique (RLT) which generates polynomial implied constraints and then linearizes the resulting problem by introducing new variables. Lin and Tsai [14] introduced a generalized method to find multiple optimal solutions of signomial discrete programming problems with free variables. By means of variable substitution and convexification strategies, a signomial discrete programming problem with free variables is

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