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Abstract:
Cloud computing plays a vital role in today's IT industry, as it offers tremendous
computing and storage facilities for the tasks and outsourced data respectively.
The major security concern during the computations is to protect customer's
confidential data. The mechanism of this paper decomposes widely applicable
linear programming (LP) computation outsourcing into public LP solvers running
on a cloud. Efficient privacy preserving problem transformation techniques
allows customers to transform original LP into some random LP by keeping
private LP parameters and protect input output information. This paper gives
detailed mathematical analysis for original LP transformations and LP problem
solving. It also proposes a method of adding a fake variable into linear program
which will be transformed to random one so that it will be more difficult for an
attacker to guess the original problem. The results obtained from the
experimentation prove to be efficient and more close to zero additional cost.

≔ Contents

1. Introduction

Cloud computing is the practice of using a network of remote servers hosted on the internet to manage and process data rather than a local server or a personal computer. Cloud Computing refers to manipulating, configuring and accessing the applications online. The National Institute of Standards and Technology (NIST) defines cloud computing broadly as "a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (for example, networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction [4].

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