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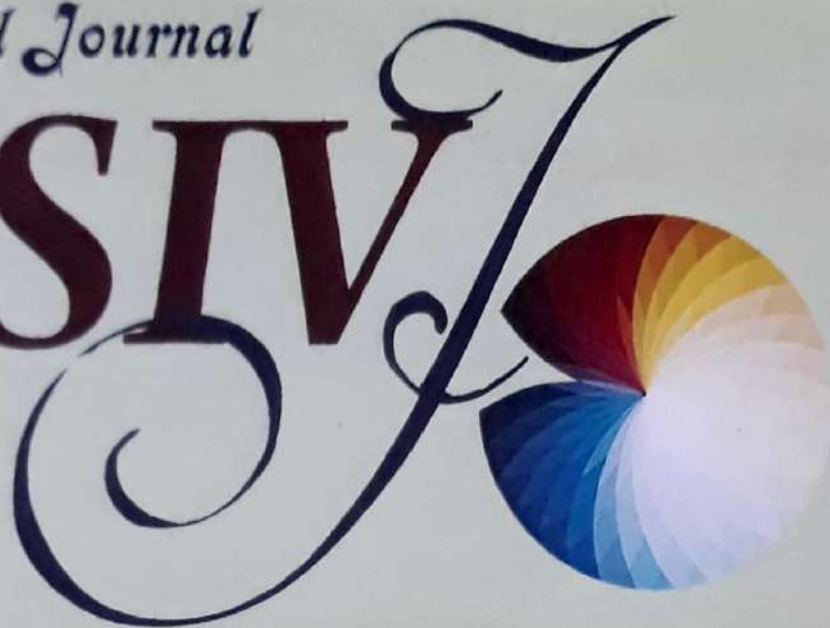
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Resource Management Decision Making In Cloud Computing Using Operations Research

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Abstract - Cloud computing is an emerging concept that faces many decision problems. Cloud computing's usage-based pricing model creates an incentive for subscribers to optimize the utilization of the rented resources. Operations research and business analysis becomes inherently intertwined with the management of IT resources. The paradigm shift from *IT as a product* to *IT as a service* and the accompanying flexibility gives rise to a wide array of resource management decisions. This paper discusses the various possibilities of utilizing operations research techniques for resource management in cloud computing.

Keywords - cloud, operations research, service, hungarian

Introduction

Many of today's Information Technology (IT) applications rely on access to state-of-the-art computing facilities. In response to the resulting demand for flexible computing resources, cloud computing has taken the IT industry by storm over the past few years. According to the National Institute of Standards and Technology (NIST), cloud computing is 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. Cloud computing is a service where computing is provided as a commodity, much akin to electricity or cable television. Thus, cloud computing is not about a specific technology; rather it

is a step in the commoditization of computing enabled by technological advances. The shift from IT to IT enabled services demands a great deal of management decisions. The decisions are to be based on various criteria and it also has to satisfy the requirements of the clients who are being serviced. It is important to optimize cloud computing for everyone involved in the business of cloud, both from a cost perspective and a green (sustainability) perspective. The stakeholders can benefit from Operations Research due to the nature of the problems they face, and that similarly the OR community can benefit from an emerging field which has the potential to drive new research questions. Even though the process of commoditization is not yet complete, operations research can already be applied to cloud computing as it starts now. In fact, operations research can be used every step of the way.