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**DEPARTEMNT OF INFORMATION SCIENCE AND ENGINEERING**

**BOOK and BOOK CHAPTER**

| <b>Faculty Name</b>   | <b>Title of the book/chapters published</b>                       | <b>Title of the paper</b>  | <b>Title of the proceedings of the conference</b>      | <b>Year of publication</b> |
|-----------------------|---|--|--|----------------------------|
| Dr.Nandini Prasad K S | Lecture Notes in Electrical Engineering                           | Software defined networking for smart grid communications and security challenges              | Lecture Notes in Electrical Engineering                | 2017                       |
| Dr.Nandini Prasad K S | Lecture Notes on Data Engineering and Communications Technologies | Cognitive Computing Technologies, Products, and Applications                                   | Evolutionary Computing and Mobile Sustainable Networks | 2020                       |
| Dr.Shylaja B S        | Advances in Intelligent Systems and Computing                     | Dynamic Virtual Machine Provisioning in Cloud Computing Using Knowledge-Based Reduction Method | Advances in Intelligent Systems and Computing          | 2020                       |
| Dr.Nandini Prasad K S | System Software and Compiler Design                               | It's a book  |  | 2018                       |
| Dr.Nandini Prasad K S | Automata Theory and Computational Intelligence                    | It's a book  |  | 2019                       |

# 1. Software defined networking for smart grid communications and security challenges

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ISGW 2017: Compendium of Technical Papers pp 103–112 | [Cite as](#)

## Software Defined Networking for Smart Grid Communications and Security Challenges

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M. U. Shaileshwari , K. S. Nandini Prasad & A. Paventhan

Conference paper | [First Online: 11 April 2018](#)

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### Abstract

### Abstract

With the aim of empowering smarter energy usage and integration of renewable distributed energy resources (DERs), smart grid has been proposed as an evolution of the current power systems leveraging the most advanced information and communication technologies (ICTs) to provide an intelligent bi-directional electricity and communication network. Smart grid is a large-scale, heterogeneous, and distributed network, which poses many challenges to be overcome from communication networking to autonomous control and management. In recent years, the paradigm of software defined networking (SDN) has attracted much attention. It proposes a new concept of networking architecture which abstracts the control functionalities from the packet forwarding hardware (data plane) to an external software controller (control plane). This is extremely convenient for large data centers to cope with virtual machine networking in which virtual machines are created dynamically and move between different physical machines. Due to the controller being implemented as software and its programmatic interfaces to individual networking devices are exposed to other software applications, any network applications and services based on such an architecture can be more agile. Furthermore, application systems are enabled to be network-aware, which

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# Cognitive Computing Technologies, Products, and Applications

[N. Divyashree](#) & [Prasad K. S. Nandini](#)

Conference paper | [First Online: 01 August 2020](#)

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Part of the [Lecture Notes on Data Engineering and Communications Technologies](#) book series (LNDECT, volume 53)

## Abstract

Cognitive computing has made industries and business organizations to operate in a

different paradigm with respect to the use of technology right from carrying business operations to high-level decision-making strategy. The ability of human experts in any field to think and make right decisions varies from person to person which creates the demand and necessary requirement of a high skilled person in an industry, but it becomes difficult for any human when it comes to obtaining useful insights to carry out business operations and to take right decisions from a huge amount of data that gets generated every day. Different technologies and platforms are necessary to process almost petabytes of data and make proper use of it to obtain patterns and insights.

## Keywords

Cognitive science

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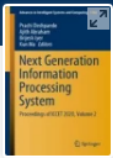
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R. Bhaskar & B. S. Shylaja

Conference paper | First Online: 14 June 2020

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Cloud infrastructure performance extremely depends ahead on the task scheduling and load

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balancing. The recent growth of cloud computing and service provider's key challenge is scheming proficient mechanism for managing the restricted resources shared by different applications. Resource administration method has to do efficient assignment of resources for virtual machines by ensuring optimal resource exploitation of available physical machines. This paper proposes the application of rough-set model for provisioning of virtual machines. The proposed method uses knowledge-based reduction technique, and it generates the rules to reduce unnecessary attributes of the virtual machines. These rules help virtual machine managers for making effective administration of restricted resources.

## Keywords

Cloud computing

Data center

Physical machine

Rough-set model

Virtual machine

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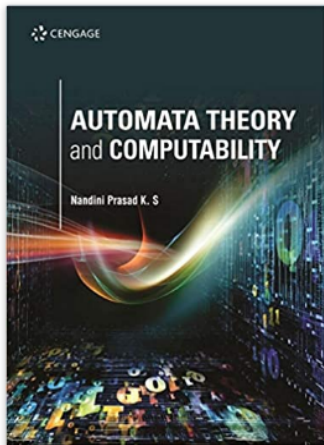
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## 5. Automata Theory and Computational Intelligence





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Paperback – 1 January 2019



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