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DEPARTEMNT OF INFORMATION SCIENCE AND ENGINEERING

BOOK and BOOK CHAPTER

Faculty Name	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of publication
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

Software Defined Networking for Smart Grid Communications and Security Challenges

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

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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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2. Cognitive Computing Technologies, Products, and Applications

Cognitive Computing Technologies, Products, and Applications

N. Divyashree ✉ & Prasad K. S. Nandini

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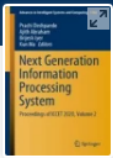- Tax calculation will be finalised during checkout

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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   Cognitive computing   Artificial intelligence   Machine learning

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3. Dynamic Virtual Machine Provisioning in Cloud Computing Using Knowledge-Based Reduction Method

Dynamic Virtual Machine Provisioning in Cloud Computing Using Knowledge-Based Reduction Method

R. Bhaskar ✉ & B. S. Shylaja

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Abstract

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

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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Sections	Figures	References

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4. System Software and Compiler Design

General Information

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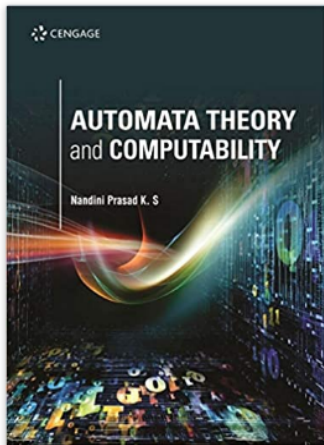
5. Automata Theory and Computational Intelligence

Automata Theory and Computability

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The book begins with the origin of automata, and includes preliminary concepts required to understand the automata theory. In Chapters 1 and 2, the book describes design of DFSM and NDFSM. Chapters 3 present concepts related to Regular Expression and to obtain RE from given FSM. Chapters 4 and 5 describe CFG, design of CFG, and Ambiguous Grammar. In Chapters 6 and 7, the book discusses PDA (Pushdown Automata) and TM (Turing Machine). The book concludes with concepts related to Decidability, Undecidable Language, Post correspondence Problem, and Quantum Computation.

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