DISTRIBUTED SYSTEMS

D.R.S. Swetha

PREFACE

Distributed Systems form a rapidly changing field of computer science.

The Internet and the Web continue to grow and have an impact on every aspect of our society. From a distributed systems perspective, these developments are placing substantial new demands on the underlying system infrastructure in terms of the range of applications and the workloads and system sizes supported by many modern systems.

The book uses plain, lucid language to explain the importance and the fundamentals of this subject. The book aims to provide an understanding of the principles on which the Internet and other distributed systems are based. Important trends including the rapid diversity and ubiquity of networking technologies (including the increasing importance of wireless networks. Each chapter is well supported with necessary illustrations and important questions. All chapters in this book are arranged in proper sequence that permits each topic to build upon earlier studies.
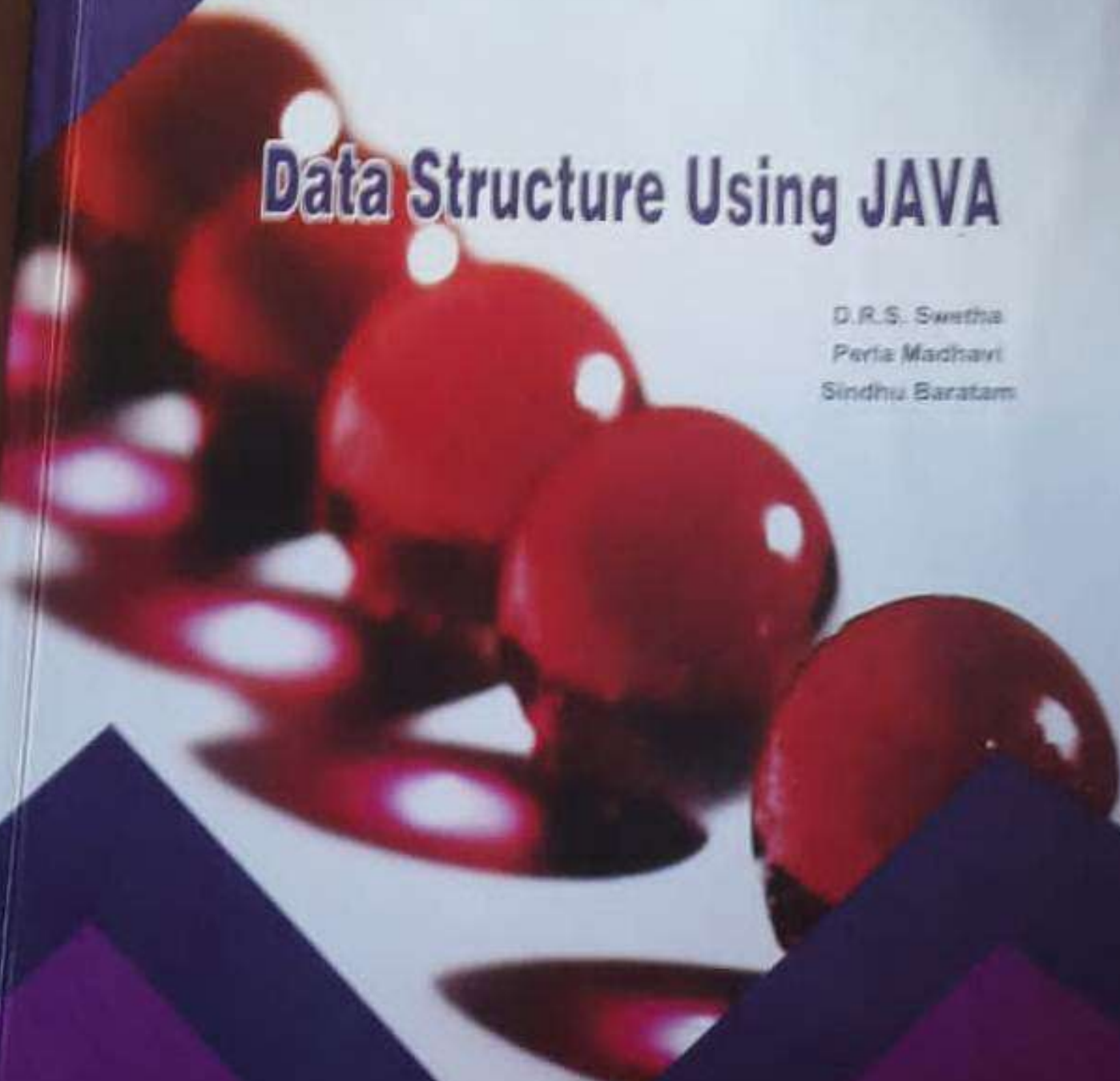
The significant highlight of this book is the method of presentation, comprehensive coverage to topics. So, we have tried to accomplish the presentation in a magnificent way which focus to cover the entire syllabus with complete inclusive of topics which make the reader a guided field of knowledge and complete fetch to score marks in examination.

I feel thank-ful to our Secretary and Correspondent Dr.G.Madhukumar Garu and Dr.K.Satyanarayana Garu, Director, IQAC, Dr.L.B.College, who encourages and supports the faculty members and strive for the excellence of the college in all the activities.

I dedicate this book to our Sir Mr.Riaz Mohammed Garu, Dean, Dr.L.B.College. He is the one who gave a support and encouraged me to write this book. I also thank Dr.Y.Polireddy sir who gives support to us.I also thank my husband, parents and my department, colleagues who motivated me to write this book.

We wish to express our profound thanks to all those who helped in making this book a reality. Much needed moral support and encouragement is provided on numerous occasions by our whole family. We wish to thank the Publisher G.Malleshwara Rao and the entire team of Shree Publishing House who have taken immense pain to get this book in time with quality printing.

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D.R.S. Swetha

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Data Structure Using JAVA

D.R.S. Swetha

Perla Madhavi

Sindhu Baratam

PREFACE

Data structures is a way of organizing large amount of data and store more efficiently that enable efficient access and modifications. The design and analysis of efficient data structures has long been recognized as a vital subject in computing, for the study of data structures is part of the core of every collegiate computer science and computer engineering major program we are familiar with. Typically, the introductory courses are presented as a two- or three course sequence. Elementary data structures are often briefly introduced in the first programming or introduction to computer science course and this is followed by a more in-depth introduction to data structures in this book.

Furthermore, this course sequence is typically followed at a later point in the curriculum by a more in-depth study of data structures and algorithms. We feel that the central role of data structure design and analysis in the curriculum is fully justified, given the importance of efficient data structures in most software systems, including the Web, operating systems, databases, compilers, and ZA simulation systems.

One of the main ideas of the object oriented approach is that data should be presented as being encapsulated with the methods that access and modify them. That is, rather than simply viewing data as a collection of bytes and addresses, we think of data as instances of an abstract data type (ADT) that includes a repertory of methods for performing operations on the data.

I would like to dedicate this book to my husband B.NARAYANA REDDY who always supports us in each and every step in my life.My heartful thanks to my Parents who encourages in every aspect and brought me to this stage and make me proud in the society.

We wish to thank the **PUBLISHER** and the entire team of **SHREE PUBLISHING HOUSE** who have taken immense pain to get this book in time with quality printing.

- Authors

HUMAN RESOURCE MANAGEMENT

DR. VINAY CHAITANYA GANTA

MBA, MA (Psy), Ph.D.

Assistant Professor,

Department of Management Studies

Dr. Lankapalli Bullayya College

Visakhapatnam, Andhra Pradesh, India

DR. N. KISHORE BABU

M.COM, MBA, Ph.D.

Professor, Department of Commerce

and Management Studies

Andhra University, Visakhapatnam,

Andhra Pradesh, India

HUMAN RESOURCE MANAGEMENT

Dr. Vinay Chaitanya Ganta
Dr. N. Kishore Babu

TEAM

HUMA
RESOURC

ABOUT THE AUTHORS

Dr. Vinay chaitanya Ganta is working as an Assistant Professor in the Department of Management, Dr.Lankapalli Bullayya College, Visakhapatnam, Andhra Pradesh, India. He has four years of teaching experience in teaching Management students. He believes that education helps to move from darkness to light. He received his Master of Business Administration (MBA) degree from JNTU Kakinada University and did M.A (Psychology) in the Andhra University, Visakhapatnam. He also has three years research experience as Junior Research Fellow and Senior Research Fellow under UGC-NET. He is very passionate about research and believes that, Research is all about finding new knowledge. During his research work, he presented various papers in National and International Seminars and Conferences on Contemporary issues relating to Management subject. He has published papers on Human Resource Management and Management in various referred and peer reviewed International journals and in edited books volumes.

Dr. N. Kishore Babu is working as a Professor in the Department of Commerce and Management Studies, Andhra University, Visakhapatnam, Andhra Pradesh, India. He has been 24 years of teaching experience in M.B.A and M.Com courses of Andhra University. He has 28 years of Research Experience in the Faculty of Commerce and Management Studies, Andhra University. He has presented various papers in National and International seminars. He has published more than 35 research papers in various National and International reputed Journals. He is also an Editorial Board Member of various referred International Journals. Under his guidance 14 Ph, D scholars and 5 M. Phil scholars were awarded so far. He has more than 10 years administrative experience as Assistant Director for MBA Distance Mode Programme, Warden for AU Arts and Commerce Hostels, Co-ordinator for P.G, and Professional Examinations, Co-ordinator for Certificate Course on GST, Chief Warden for AU Research Scholars'Hostels and Internal Auditor for IQAC, Andhra University. He believes that "Education is the most powerful weapon which can use to change the world".

DISCLAIMER

The authors are solely responsible for the contents of the papers compiled in this volume. The publishers or editors do not take any responsibility for the same in any manner, errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors or publishers to avoid discrepancies in future.

OFFICE AUTOMATION TOOLS

D.R.S. Swetha

S. Srilatha

PREFACE

Technology has made a serious impact on the daily work of office administration. Emails have replaced memos, shared drives have done away with filing cabinets, and biometrics have taken over employee timesheet stamping. Many businesses think that they have attained office automation nirvana simply by going paperless.

Many people don't understand the power of Microsoft Office and how all the Microsoft Office applications can communicate with each other or other systems to streamline workflow within your business

Office automation adds efficiency to your workflows, but you need to look beyond emails and digital forms to really embrace it. If you are looking for an office automation solution that can take your company workflows to the next level, don't settle for anything that doesn't have these five essentials.

We thank our Secretary and Correspondent Dr.G.Madhukumar Garu,and the Director Dr.k.Satyanarayana Garu and Dean Raiz Mohameed Garu, who encourages and gives us courage in all the aspects.

We specially thank Dr.Y. Polireddy Garu, Principal, Dr.L.B.College,Visakhapatnam who supports us in every aspect and always Strive for the excellence of the college.

We wish to thank to the Publisher who have taken immense pain to get this book in time with quality printing.

-Authors

St Aloysius College (Autonomous)
AIMIT
St Aloysius Institute of Management and IT
Dept. of MBA
Mangalore, Karnataka, India

Re-accredited 'A' Grade by NAAC
&
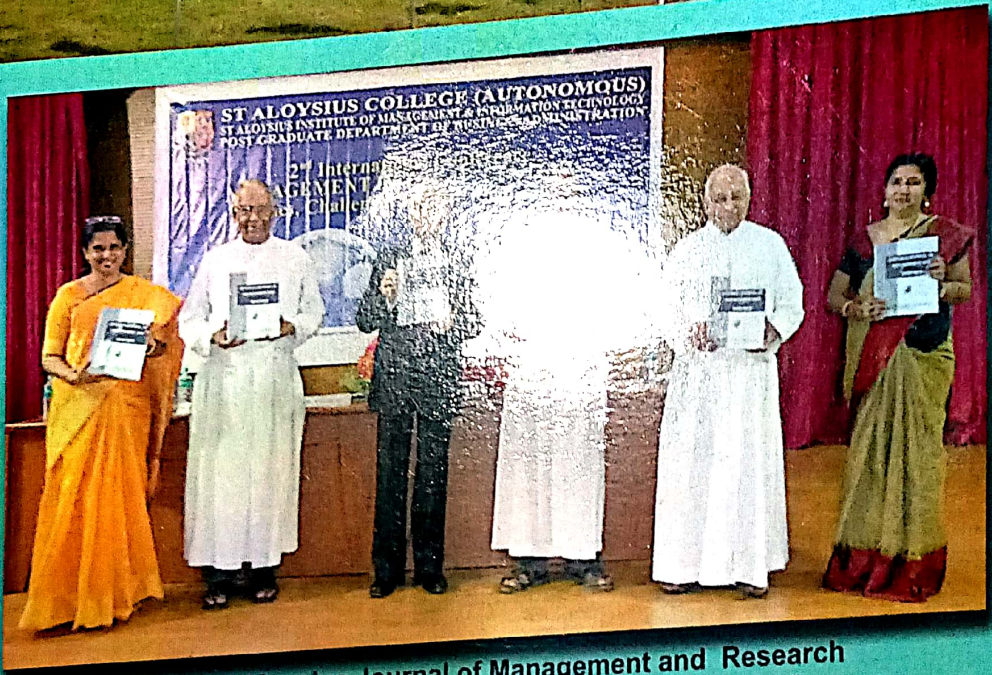Recognised as College with Potential for Excellence by UGC

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St Aloysius College (Autonomous)
St Aloysius Institute of Management and Information Technology
Beeri, Mangaluru - 575 022
Phone: 0824-2286890, 6490299
email: info@staloysius.ac.in/ aimit.sac@gmail.com
website: www.staloysius.ac.in Blog: www.sac-aimit.org

need indicators that assist them to understand the current state of the growth and the progress made towards achieving sustainable development. However, traditional national accounts which do not take into account the negative externalities of growth like pollution and resource depletion are found to be both inadequate and misleading. Genuine Saving Rate (GSR) is one such alternate national accounting measure which attempts to show the actual saving of a nation after accounting for depreciation in physical and natural capital and investment in human capital. This paper attempts to assess the sustainability of economic growth of selected developed and developing economies using Genuine Saving Rate approach. The study found that the developed countries are more sustainable in terms of the extent of negative externalities caused by them. On other hand, developing countries are found to be more sustainable in terms of GSR as they generate higher saving rate to compensate the negative externalities.

International Talent Management

Ms. Anjana Raviprolu, Asst. Professor, Dept. of Management, Dr. Lankapalli Bullayya College, Visakhapatnam

Abstract

Talented Human Resources are the assets to any organisation. The success and growth of any organisation depends upon its human assets. The international have diversified a pool of talent which is an opportunity to be tapped. The organisation should formulate the strategies to manage the talents so that they are acquired and retained for both the individual and organisational growth. Not just acquiring but also retaining the talent has also become one of the greatest challenges to the organisation in the competitive global scenario. As the knowledge, trade, technology, goods and capital are now globally connected; managing of workforce has also changed. This has transformed the way the global workforce is sourced, organised and managed. The growth in the emerging markets is accelerating the talent mobility and creating shortage of talent in specific markets. Managing talent at international level is beneficial for both the organisation and the talents. The talents get the exposure at the international level and the company gets a diversified workforce with global understandings. The main objective of this paper is to understand the benefits and challenges of international talent management. The paper also highlights the strategies to retain the talent.

Key words: Talent, talent mobility, global scenario, workforce

PHP AND
My SQL

Ganta Rojamani

Pitchika Giribabu

Himalaya Publishing House
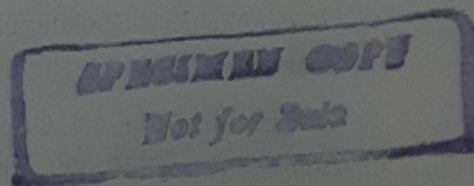
PHP AND MY SQL

*[As per New CBCS Syllabus for 6ᵗʰ Semester B.Com,
(Computer Applications Stream) All Universities in Andhra Pradesh w.e.f 2015-16]*

Ganta Rojamani MCA, M.Phil
HOD of Computer Science UG,
Dr. LB College, Visakhapatnam.

Pitchika Giribabu MCA, M.Tech (CSE)
HOD of Computer Science,
Kakinada Aditya Degree College, Srikakulam.

PREFACE

We have great pleasure in presenting the book "*PHP and My SQL*" written for students of UG courses. The subject matter is written in a simple and easily understandable language by considering Indian business perspectives.

This is an endeavor to provide the students with thorough understanding of PHP and My SQL concept. While writing this book we have benefited greatly from the studies of a number of books and the articles written by scholars widen over diversely.

In writing the book special care has been taken to avoid gaps in the sequential arrangement of topics in the syllabus and logically developed the various facets of PHP and My SQL step-by-step of an integrated approach with a view to make it a comprehensive and complete volume by itself. Topics covered are discussed, as far as possible, in a fairly self-contained manner.

The book would not have seen the light, but for the charm of God and the blessings and support of our family members and friends.

We offer our gratitude to Himalaya Publishing House Pvt. Ltd., who is leader in Commerce and Management publications. Our sincere regards to Mr. Niraj Pandey, Mr. Vijay Pandey and Mr. H. C. Pant for interest shown and for the best effort put forth by the matter of publication of this book.

Finally, we express our sincere thank to *SPS*, Bangalore for their excellent computer typesetting work and the printing.
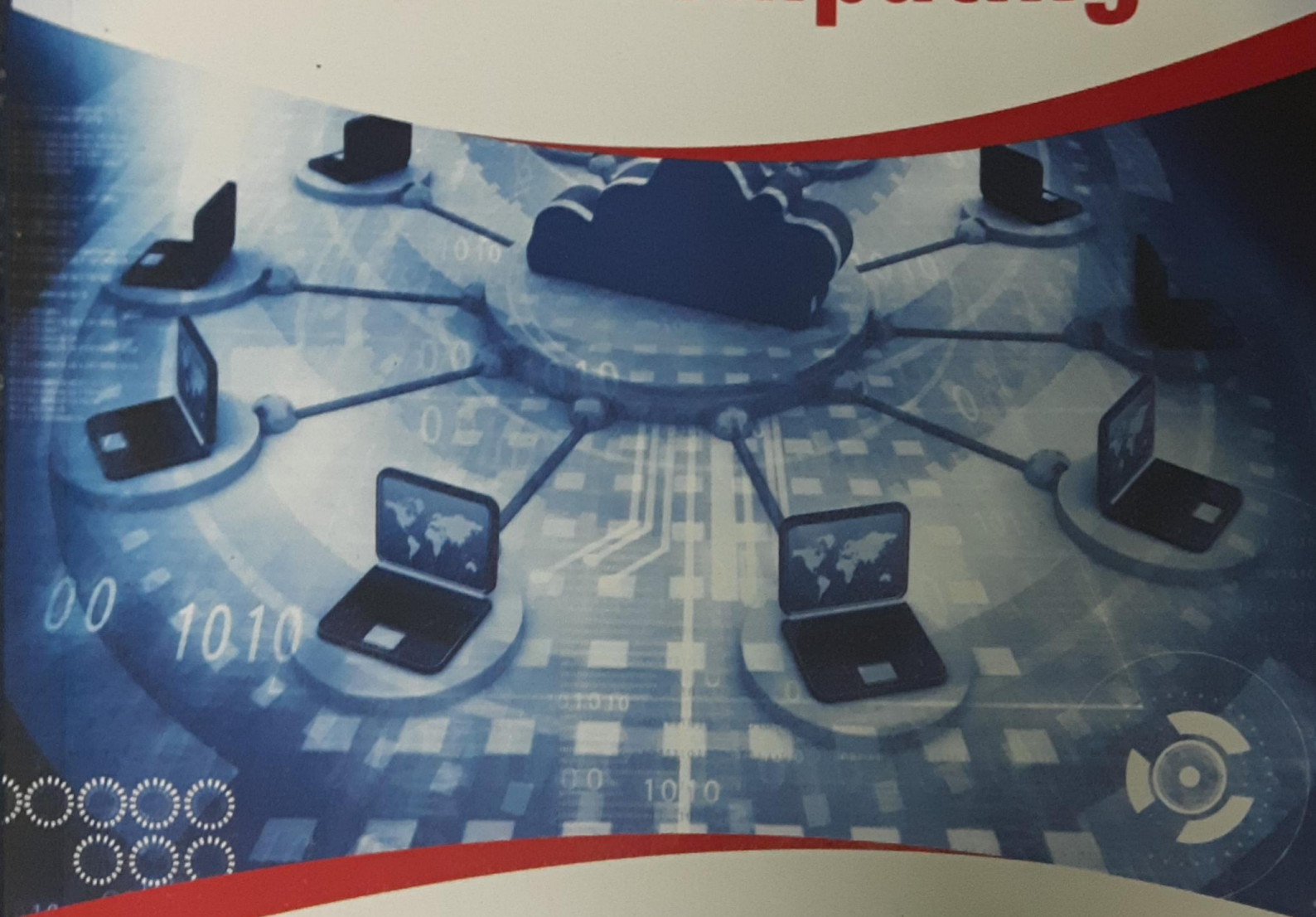
We humbly acknowledge that there is always some scope for further improvement and to that end, sincerely invite valuable suggestions which would be thankfully incorporated in the edition to come.

Bengaluru

Authors

Jan. 2018

Cloud Computing

Rojamani Ganta

G.A.V.S. Sastry

CLOUD COMPUTING

B.Sc. Computer Science/Information Technology (IT) Syllabus Under CBCS
w.e.f.2015-2016 (Modified in April 2016)
Structure of Computer Science/Information Technology (IT) Syllabus

Ganta Rojamani

MCA, M.Phil
Head, Department of Computer Science (UG),
Dr. LB College,
Visakhapatnam. Andhra Pradesh

GAVS Sastry

M.Sc M.Tech(CSE)
Head, Department of Computer Science
Aditya Degree College (Asilmetta Campus)
Visakhapatnam, Andhra Pradesh

SHREE
PUBLISHING HOUSE

Visakhapatnam, Andhra Pradesh

PREFACE

Cloud computing is an upcoming paradigm that offers tremendous advantages in economical aspects, such as reduced time to market, flexible computing capabilities, and limitless computing power. To use the full potential of cloud computing, data is transferred, processed and stored by external cloud providers.

Cloud computing platforms provide efficient and flexible ways to offer services and computation facilities to users. However, reliability in the cloud is an important factor to measure the performance of a virtualized cloud computing platform.

It covers all topics such as cloud overview , cloud scenario , cloud architecture , security concern and virtualization etc. The book presents the material with clarity and conciseness to enable students to read and study with diagrams.

I dedicate this book to my family members. I also express my special thanks and gratitude to my husband for encouragement as well as support to complete this book.

I am extremely grateful to Shree publications for providing opportunity to bring forward this book and for their encouragement as well as support to complete this book.

Any valuable suggestions for the improvement of this book are welcome.

- Authores

OPERATING SYSTEMS

Ganta Rojamani
P. Lakshmi Saroja

OPERATING SYSTEMS

Ganta Rojamani
MCA, M.Phil
Head, Department of Computer Science (UG),
Dr. LB College, Visakhapatnam.
Andhra Pradesh.

P. Lakshmi Saroja
M.Sc, HDSE, DOEACC O'level
Head, Department of Computer Science
Aditya Degree College
Rajahmundry

PREFACE

This book is targeted at a broad audience, but nutshell - to any one who wants to learn more about operating systems. Operating systems has become hot topic and students at different levels need to understand operating systems in different ways. Operating Systems are an essential part of any computer system. Similarly, a course of an operating system is an essential part of any computer science education. The fundamental concept remain fairly clear and it is on these that we base this book. I wrote this book as a text for an introductory course in Operating Systems at the junior or senior under graduate level. This book has been prepared accordingly to the revised syllabus of operating systems for the undergraduate students.

The primary aim of the author has been to present the material in a comprehensive manner so as to help the students to easily grasp the subject. Student need not to go for another book to find the topics as all the syllabus is covered in the same book with easy language.

I dedicate this book to my parents. I also express my special thanks and gratitude to my husband for encouragement as well as support to complete this book.

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Ganta Rojamani
P. Lakshmi Saroja

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OBJECT ORIENTED
PROGRAMMING USING JAVA

Ganta Rojamani

Object Oriented Programming Using JAVA

Ms. Ganta Rojamani

MCA, M.Phill
HOD of Computer Science UG
Dr. Lankapalli Bullayya College
Visakhapatnam
Andhra Pradesh

mani_roja@yahoo.com
rojamani9@gmail.com

PREFACE

The primary purpose of this book is to teach the Java programming language to an audience of beginners, but its progressive layout of tutorials increasing in complexity, it can be just as helpful for intermediate and experienced programmers. This book is designed for those readers who wish to start learning to program in an object-oriented programming language. It has been designed primarily as a first programming text. It is also suitable for those who already have some experience with another programming language, and who now wish to move on to an object-oriented oneThe language we use to teach object-oriented programming is Java.

Since its arrival on the scene in 1995, the adoption of Java as a primary programming language has been amazing. In its favour at the time of its arrival were the facts that it was an object-oriented language, and that it offered a safer and more portable alternative to other languages. It also rode the wave of interest in the World Wide Web, with which it integrated well in its provision of applets. Since then, however, Java has come to be regarded as a genuine mainstream programming language.

Programming Basics: This deals with the basic ideas of problem solving with computers, including primitive data types, control structures, methods, and algorithm analysis.

Object-Oriented Programming: OOP is today's dominant programming paradigm. All the essentials of this subject are covered.

I dedicate this book to my family members. I also express my special thanks and gratitude to my husband for encouragement as well as support to complete this book.

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– Ganta Rojamani