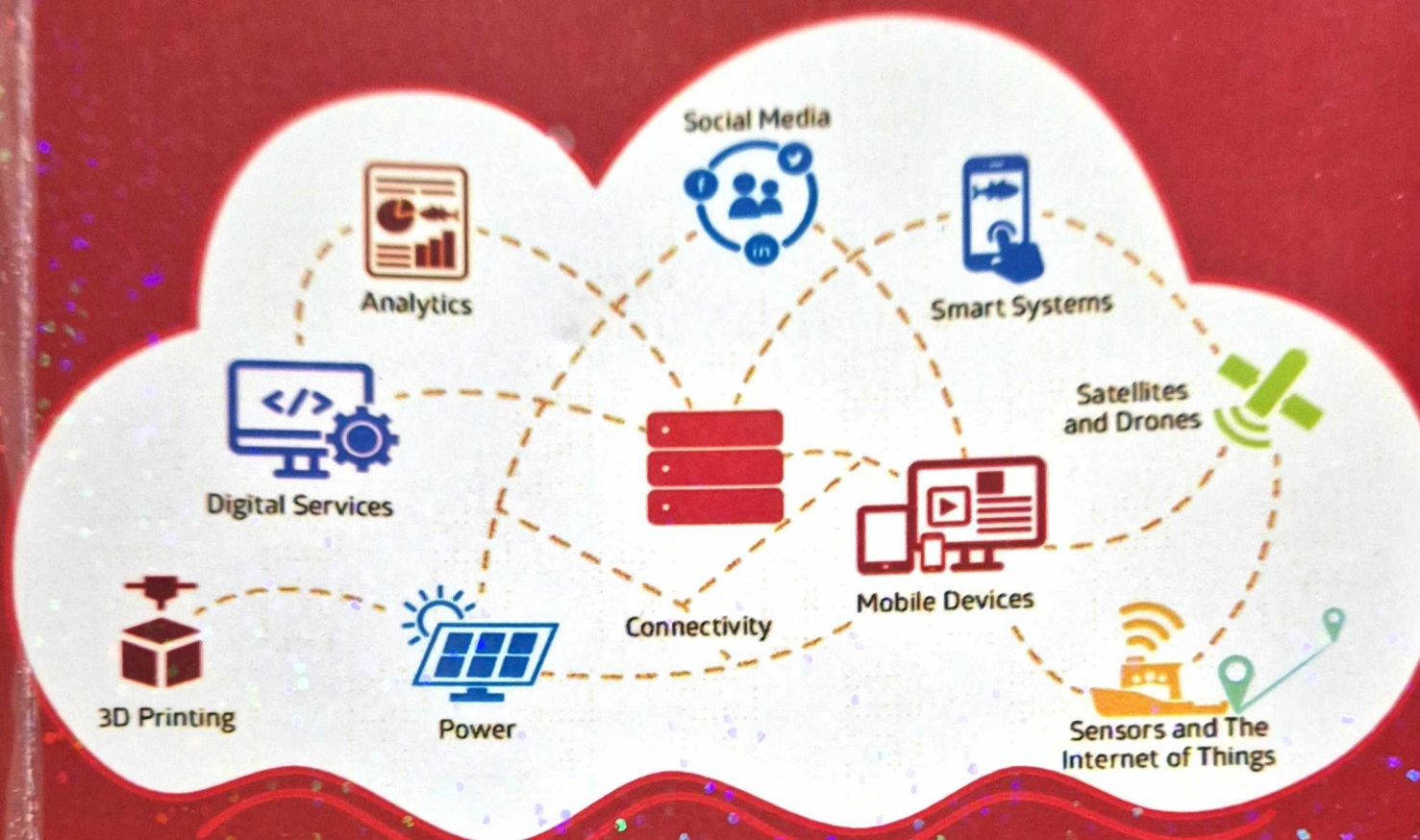


RECENT TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY

(Volume - 3)



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Dr. P. Sujatha, Dr. C. Shanthi,
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SPNC PUBLICATION

6975, TNHB, Near Saibaba Temple,
Ayyapakkam, Chennai – 600 077.

Cell : 9003124064 / Website: www.udhayas.in

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ISBN: 978-93-91871-95-6

Publication: March 2024

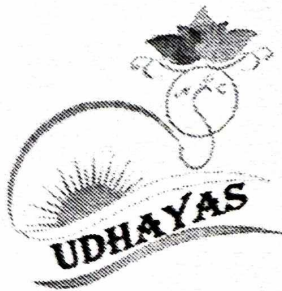
Pages : 186

Price : ₹.500/-

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Printed At : Udhayas Print, Chennai.

Published By:



UDHAYAS SPNC PUBLICATION
6975, TNHB, Near Saibaba Temple,
Ayyapakkam, Chennai - 600 077.
Cell : 9003124064 / Website: www.udhayas.in

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5. Constructive Algorithms For Graph Coloring

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ABSTRACT

The field of mathematics plays vital role in various fields. One of the important areas in mathematics is graph theory which is used in structural models. This structural arrangement of various objects or technologies lead to new inventions and modifications in the existing environment for enhancement in those fields. In this paper, we'll present well-known algorithms to solve the graph coloring problem using the greedy, and DSatur approaches and discuss their optimality.

Keywords: Graphs, connectivity, constraints, graph coloring, graph drawing

INTRODUCTION

Graph coloring refers to the problem of coloring vertices of a graph in such a way that no two adjacent vertices have