

Simple Algorithm for Page Layout Analysis

A. O. Shigarov and R. K. Fedorov

*Institute for System Dynamics and Control Theory, Siberian Branch, Russian Academy of Sciences,
ul. Lermontova 134, Irkutsk, 664033 Russia*

Abstract—An algorithm for page layout analysis (segmentation) is suggested in the paper. It allows whitespace between text blocks to be detected on a document page. The algorithm could be used in document analysis and recognition problems. In particular, it can be used for column recognition in multicolumn text and tables. The suggested algorithm is quite simple for implementation.

INTRODUCTION

The number of documents in the world is growing rapidly; this is discussed in [6] in particular. Document analysis and recognition (DAR) systems are developed for automation of information extraction from document images [7]. Document layout analysis or page segmentation is used for dividing document into specific parts (e.g., columns, figures, tables). This is an important DAR problem. Different methods of document layout analysis are discussed in [3].

Conventionally, there are two approaches to the problem of page or table column segmentation. The first approach is to analyze of text layout (text blocks); this usually requires the use of complex data structures. For example, such an approach with the use of a Voronoi diagram for page segmentation is suggested in [5]. The second approach is to analyze whitespace (free of text) on a page. Gaps separate text and table columns on a page, as is shown in Fig. 1. Algorithms using whitespace analysis are suggested in [1, 2, 8]. Algorithms [1, 8] are briefly considered in [2]. They can be used for detecting whitespace between text blocks. The authors of [2] point out that the algorithms [1, 8] are difficult for implementation. A geometrical layout analysis algorithm, simple for implementation, is presented in [2]; it provides for detecting whitespace gaps in multicolumn text and is described in terms of the largest empty rectangle problem [4]. The algorithm input is a bounding box including obstacles (rectangles). The algorithm [2] finds the largest empty rectangle among obstacles inside the bounding box. To find whitespace gaps on a page, n -better solutions (empty rectangles) in descending order are found on the page. The algorithm [2] is greedy. The found i -largest empty rectangle becomes an obstacle when searching for the next $i + 1$ -largest empty rectangle. However, it is probable that some of n -better solutions (largest rectangles found) are not gaps between columns, but, e.g., horizontal gaps between paragraphs or

tables on the page. This is the disadvantage of the algorithm [2].

In the paper, we suggest an unconventional simple algorithm for detecting whitespace gaps on a document page. It allows detecting vertical gaps (visually they are stretched up vertically), as well as horizontal gaps if the X and Y axis are exchanged. The suggested algorithm is simple; its Object Pascal implementation consists of about 60 lines of code (expressions).

1. PROBLEM FORMULATION

The geometrical objects considered in this work are presented in the Cartesian coordinate system, where the x -coordinates increase from left to right and y -coordinates increase from the top down. The following assumptions are used in this work. The rectangle (e.g., an obstacle, bounding box, or gap) $r = (x_1, y_1, x_2, y_2)$ is defined by the coordinates of its sides (boundaries): left $x_1 = x_1(r)$, top $y_1 = y_1(r)$, right $x_2 = x_2(r)$, and bottom $y_2 = y_2(r)$; in addition, its sides are parallel to the corresponding coordinate axes. The vertical line $l = (x, y_1, y_2)$ is normal to the X axis and is defined by its coordinates: $x = x(l)$ by the x -coordinate, $y_1 = y_1(l)$ by the minimum (top) y -coordinate, and $y_2 = y_2(l)$ by the maximum (bottom) y -coordinate.

It is assumed that the bounding rectangle b and the set of obstacles (rectangles) $R = \{r_1, \dots, r_n\}$, $n \in \mathbb{N}$ are specified. The rectangle b usually bounds a document page or its part (e.g., a table), while the obstacles are bounding rectangles for text blocks (e.g., words or lines). The obstacles from the set R are totally inside the bounding rectangle b and do not overlap each other.

Let us define two sets of obstacles (rectangles) $R^+ = \{r_1, r_2, \dots, r_m, r_3\}$ and $R^- = \{r_1, r_2, \dots, r_m, r_3\}$, where $r_1 = (x_1, y_1, x_2, y_2)$, $r_2 = (x_m, y_m, x_m, y_2)$, $r_3 = (x_2, y_1, x_2, y_2)$, $x_1 = x_1(b)$, $y_1 = y_1(b)$, $x_2 = x_2(b)$, and $y_2 = y_2(b)$. Let us also define the gap as a rectangle bounding a certain part of whitespace inside the bounding rectangle b .

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Advances in Electronic Engineering, Communication and Management Vol.1 David Jin, Sally Lin, 2012-01-24 This volume presents the main results of 2011 International Conference on Electronic Engineering Communication and Management EECM2011 held December 24 25 2011 Beijing China The EECM2011 is an integrated conference providing a valuable opportunity for researchers scholars and scientists to exchange their ideas face to face together The main focus of the EECM 2011 and the present 2 volumes *Advances in Electronic Engineering Communication and Management* is on Power Engineering Electrical engineering applications Electrical machines as well as Communication and Information Systems Engineering

The Design and Analysis of Algorithms Dexter C. Kozen, 2012-12-06 These are my lecture notes from CS681 Design and Analysis of Algorithms a one semester graduate course I taught at Cornell for three consecutive fall semesters from 88 to 90 The course serves a dual purpose to cover core material in algorithms for graduate students in computer science preparing for their PhD qualifying exams and to introduce theory students to some advanced topics in the design and analysis of algorithms The material is thus a mixture of core and advanced topics At first I meant these notes to supplement and not supplant a textbook but over the three years they gradually took on a life of their own In addition to the notes I depended heavily on the texts A V Aho J E Hopcroft and J D Ullman *The Design and Analysis of Computer Algorithms* Addison Wesley 1975 M R Garey and D S Johnson *Computers and Intractability A Guide to the Theory of NP Completeness* W H Freeman 1979 R E Tarjan *Data Structures and Network Algorithms* SIAM Regional Conference Series in Applied Mathematics 44 1983 and still recommend them as excellent references

Algorithms and Data Structures Helmut Knebl, 2020-10-31 This is a central topic in any computer science curriculum To distinguish this textbook from others the author considers probabilistic methods as being fundamental for the construction of simple and efficient algorithms and in each chapter at least one problem is solved using a randomized algorithm Data structures are discussed to the extent needed for the implementation of the algorithms The specific algorithms examined were chosen because of their wide field of application This book originates from lectures for undergraduate and graduate students The text assumes experience in programming algorithms especially with elementary data structures such as chained lists queues and stacks It also assumes familiarity with mathematical methods although the author summarizes some basic notations and results from probability theory and related mathematical terminology in the appendices He includes many examples to explain the individual steps of the algorithms and he concludes each chapter with numerous exercises

Design and Analysis of Approximation Algorithms Ding-Zhu Du, Ker-I Ko, Xiaodong Hu, 2011-11-17 This book is intended to be used as a textbook for graduate students studying theoretical computer science It can also be used as a reference book for researchers in the area of design and analysis of approximation algorithms *Design and Analysis of Approximation Algorithms* is a graduate course in theoretical computer science taught widely in the universities both in the United States and abroad There are however very few textbooks

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Guide to Programming and Algorithms Using R Özgür Ergül,2013-07-23 This easy to follow textbook provides a student friendly introduction to programming and algorithms Emphasis is placed on the threshold concepts that present barriers to learning including the questions that students are often too embarrassed to ask The book promotes an active learning style in which a deeper understanding is gained from evaluating questioning and discussing the material and practised in hands on exercises Although R is used as the language of choice for all programs strict assumptions are avoided in the explanations in order for these to remain applicable to other programming languages Features provides exercises at the end of each chapter includes three mini projects in the final chapter presents a list of titles for further reading at the end of the book discusses the key aspects of loops recursions program and algorithm efficiency and accuracy sorting linear systems of equations and file processing requires no prior background knowledge in this area

Encyclopedia of Algorithms Ming-Yang Kao,2008-08-06 One of Springer s renowned Major Reference Works this awesome achievement provides a comprehensive set of solutions to important algorithmic problems for students and researchers interested in quickly locating useful information This first edition of the reference focuses on high impact solutions from the most recent decade while later editions will widen the scope of the work All entries have been written by experts while links to Internet sites that outline their research work are provided The entries have all been peer reviewed This defining reference is published both in print and on line

Practical Analysis of Algorithms Dana Vrajitoru,William Knight,2014-09-15 This book introduces the essential concepts of algorithm analysis required by core undergraduate and graduate computer science courses in addition to providing a review of the fundamental mathematical notions necessary to understand these concepts Features includes numerous fully worked examples and step by step proofs assuming no strong mathematical background describes the foundation of the analysis of algorithms theory in terms of the big Oh Omega and Theta notations examines recurrence relations discusses the concepts of basic operation traditional loop counting and best case and worst case complexities reviews various algorithms of a probabilistic nature and uses elements of probability theory to compute the average complexity of algorithms such as

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Table of Contents Simple Algorithm Page Layout Analysis Springerlink

1. Understanding the eBook Simple Algorithm Page Layout Analysis Springerlink
 - The Rise of Digital Reading Simple Algorithm Page Layout Analysis Springerlink
 - Advantages of eBooks Over Traditional Books
2. Identifying Simple Algorithm Page Layout Analysis Springerlink
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Simple Algorithm Page Layout Analysis Springerlink
 - User-Friendly Interface
4. Exploring eBook Recommendations from Simple Algorithm Page Layout Analysis Springerlink
 - Personalized Recommendations
 - Simple Algorithm Page Layout Analysis Springerlink User Reviews and Ratings

- Simple Algorithm Page Layout Analysis Springerlink and Bestseller Lists
- 5. Accessing Simple Algorithm Page Layout Analysis Springerlink Free and Paid eBooks
 - Simple Algorithm Page Layout Analysis Springerlink Public Domain eBooks
 - Simple Algorithm Page Layout Analysis Springerlink eBook Subscription Services
 - Simple Algorithm Page Layout Analysis Springerlink Budget-Friendly Options
- 6. Navigating Simple Algorithm Page Layout Analysis Springerlink eBook Formats
 - ePub, PDF, MOBI, and More
 - Simple Algorithm Page Layout Analysis Springerlink Compatibility with Devices
 - Simple Algorithm Page Layout Analysis Springerlink Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Simple Algorithm Page Layout Analysis Springerlink
 - Highlighting and Note-Taking Simple Algorithm Page Layout Analysis Springerlink
 - Interactive Elements Simple Algorithm Page Layout Analysis Springerlink
- 8. Staying Engaged with Simple Algorithm Page Layout Analysis Springerlink
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Simple Algorithm Page Layout Analysis Springerlink
- 9. Balancing eBooks and Physical Books Simple Algorithm Page Layout Analysis Springerlink
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Simple Algorithm Page Layout Analysis Springerlink
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Simple Algorithm Page Layout Analysis Springerlink
 - Setting Reading Goals Simple Algorithm Page Layout Analysis Springerlink
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Simple Algorithm Page Layout Analysis Springerlink
 - Fact-Checking eBook Content of Simple Algorithm Page Layout Analysis Springerlink
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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