

Automated facilities layout: past, present and future

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Abstract

This paper reviews the history of automated facilities layout, focusing particularly on a set of techniques which optimize a single objective function. Applications of algorithms to a variety of space allocation problems are presented and evaluated. Guidelines for future implementations of commercial systems are suggested. © 2000 Elsevier Science B.V. All rights reserved.

Keywords: Automated space layout; Floor plan layout; Facility layout

1. Introduction

With the growing demand for computerized facilities planning and management, there is the potential for automated space layout products to play a more significant role. As interest in such products rekindles and develops it seems appropriate to take another look at the relatively long history of approaches to automated facility layout. The author last reviewed the field (which had its origins in the early 1960's) in 1985 presenting an overview of alternative approaches to the layout problem and solution algorithms [39]. Since that time, commercial products have become available based on some of these original algorithms and on the research side new solution techniques such as simulated annealing and

most recently genetic optimization have been applied to the problem.

Facility layout is concerned with the allocation of activities to space such that a set of criteria (for example, area requirements) are met and/or some objective optimized (usually some measure of communication costs). This paper reviews alternative formulations of the problem (e.g., how space is represented and methods of evaluating a plan) as well as existing solution algorithms. It identifies the specialized applications for which algorithms seem particularly useful as well as the particular needs of facilities layout that must be considered when applying algorithms.

Some commercial facilities management systems currently incorporate automated algorithms (usually within an interactive framework) to solve facilities planning problems of stacking and blocking activities. This paper also looks at the limitations of current commercial space allocation products and proposes a set of key requirements for implementing the next generation of such systems.

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Facilities Planning and Design Alberto Garcia-Diaz, J. MacGregor Smith (Deceased), 2024-04-26 This updated expanded second edition includes new software methodologies and algorithms providing students with a more comprehensive knowledge base in addition to facilitating and making the project component of the textbook more efficient and effective. It further increases emphasis on manufacturing. Retaining its class tested pedagogy, the book is concerned with the principles of facilities planning and their application to service business and product manufacturing operations. Equipping undergraduate students with the fundamentals of facilities planning, design, location and material handling, especially as they apply to industrial manufacturing facilities, the book is ideal for a range of university settings offering courses on facilities planning.

Production and Operations Analysis Susmita Bandyopadhyay, 2019-12-18 The aim of this book is to cover various aspects of the Production and Operations Analysis. Apart from the introduction to basic understanding of each topic, the book will also provide insights to various conventional techniques as well as various other mathematical and nature based techniques extracted from the existing literature. Concepts like smart factories, intelligent manufacturing and various techniques of manufacturing will also be included. Various types of numerical examples will also be presented in each chapter and the descriptions will be done in lucid style with figures, point wise descriptions, tables, pictures to facilitate easy understanding of the subject.

Post-Parametric Automation in Design and Construction Alfredo Andia, Thomas Spiegelhalter, 2014-11-01 Automation, a mixture of algorithms, robots, software and avatars, is transforming all types of jobs and industries. This book responds to one critical question for the design and construction industry: how are architects, engineers and contractors using information technology to further automate their practices? Addressing the use of new digital technologies, particularly parametric automation for design and construction in the building industry, this book looks at how technologically advanced architectural and engineering practices are semi-automating their design processes by using sophisticated algorithms to transform their workflows. The book also documents a set of firms that are further advancing automation by using pre-fabrication, modularization and custom designs via robotics.

Facility Logistics Maher Lahmar, 2007-12-13 The design of facilities, warehouses and material handling systems, as well as the management of logistics operations, significantly impact the success of industrial projects. *Facility Logistics: Approaches and Solutions to Next Generation Challenges* explores recent developments in the technology, industrial practices and business environments of f

EG-ICE 2021 Workshop on Intelligent Computing in Engineering Abualdenien, Jimmy, Borrmann, André, Ungureanu, Lucian-Constantin, Hartmann, Timo, 2021-08-06 The 28th EG-ICE International Workshop 2021 brings together international experts working at the interface between advanced computing and modern engineering challenges. Many engineering tasks require open world resolutions to support multi-actor collaboration, coping with approximate models, providing effective engineer-computer interaction, search in multi-dimensional solution spaces, accommodating uncertainty, including specialist domain knowledge.

performing sensor data interpretation and dealing with incomplete knowledge While results from computer science provide much initial support for resolution adaptation is unavoidable and most importantly feedback from addressing engineering challenges drives fundamental computer science research Competence and knowledge transfer goes both ways Der 28 Internationale EG ICE Workshop 2021 bringt internationale Experten zusammen die an der Schnittstelle zwischen fortgeschrittener Datenverarbeitung und modernen technischen Herausforderungen arbeiten Viele

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Architecture Sara Eloy,David Leite Viana,Franklin Morais,Jorge Vieira Vaz,2021-01-04 This edited book gathers research studies presented at the 5th International Symposium on Formal Methods in Architecture 5FMA Lisbon 2020 Studies focus on the use of methodologies especially those that have witnessed recent developments that stem from the mathematical and computer sciences and are developed in a collaborative way with architecture and related fields This book constitutes a contribution to the debate and to the introduction of new methodologies and tools in the mentioned fields that derive from the application of formal methods in the creation of new explicit languages for problem solving in architecture and urbanism It adds valuable insight into the development of new practices solving identified societal problems and promoting the digital transformation of institutions in the mentioned fields The primary audience of this book will be from the fields of architecture urban planning civil engineering AEC landscape design computer sciences and mathematics both academicians and professionals Mechanical Engineering and Materials Science (ICMEMS) Barry Tan,2011-10-24 Selected peer reviewed papers from the 2011 International Conference on Mechanical Engineering and Materials Science ICMEMS 2011 September

24 25 2011 Cheju Island Korea Intelligent Decision Making: An AI-Based Approach Gloria Phillips-Wren,Nikhil Ichalkaranje,2008-02-27 Intelligent Decision Support Systems have the potential to transform human decision making by combining research in artificial intelligence information technology and systems engineering The field of intelligent decision making is expanding rapidly due in part to advances in artificial intelligence and network centric environments that can deliver the technology Communication and coordination between dispersed systems can deliver just in time information real time processing collaborative environments and globally up to date information to a human decision maker At the same time artificial intelligence techniques have demonstrated that they have matured sufficiently to provide computational assistance

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Proceedings of the 2004 Summer Computer Simulation Conference, SCSC 2004 Society for Computer Simulation,2004 **eWork and eBusiness in Architecture, Engineering and Construction** Z. Turk,R. Scherer,2002-01-01 This is a comprehensive review of research related to construction informatics with a particular focus on the related 5th framework EU projects on product and process technology and the implementation of the new economy technologies and business models in the construction industry □□□,2001

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