

SUMMARY

PERANCANGAN SOFTWARE PROTOTYPE UNTUK ALOKASI CONTAINER PADA TERMINAL PETIKEMAS

DESIGNING OF SOFTWARE PROTOTYPE TO ALLOCATE CONTAINER IN CONTAINER TERMINAL

Created by Abduh, Muhammad

Subject : komputer -- perangkat lunak, arsitektur

Keyword : perencanaan alokasi; terminal container; modifikasi bin packing; pemrograman visual basic

Description :

Shifting sering terjadi dalam sistem perencanaan alokasi container di terminal container. Shifting adalah alokasi container pada susunan yang tidak tepat sehingga diperlukan aktifitas bongkar muat tambahan. Tidak tepatnya alokasi ini disebabkan oleh faktor variasi tujuan pengiriman, jadwal pengiriman dan berat.

Bin packing merupakan pendekatan metode yang sesuai untuk penataan container. Dari ketiga metode yang ada, yang digunakan adalah three dimensional bin packing karena metode ini sesuai dengan karakteristik proses alokasi container. Akan tetapi metode ini masih perlu dimodifikasi sebab terdapat faktor baru yang menjadi bahan pertimbangan dalam mengalokasikan container. Untuk menyelesaikan permasalahan, dirancang database dengan Microsoft Access 2003 dan pengembangan program dengan Microsoft Visual Basic 6.0.

Dengan program yang dikembangkan tersebut dapat dihasilkan solusi dengan tidak ada jumlah shifting dalam waktu yang singkat dengan output berupa report tabel dalam posisi koordinat 3D.

Description Alt:

Shiftings are often occurred in container allocation planning system. Shifting is inappropriate container allocation on wrong position so it needs additional loading/unloading activity. Variance in shipping schedule, destination, and container's weight are some common factor cause of shifting.

Bin packing is one of appropriate method in container loading problem. Three dimensional bin packing is chosen than other bin packing method because it is suitable to the container allocation process characteristics. But it needs some modification because there are some new factor to be considered. To solve real problem, database system and computer programming are developed by using Microsoft Access 2003 and Microsoft Visual Basic 6.0.

The computer program developed can solve optimally by reducing shifting to zero number and the allocation is reported in worksheet and 3D coordinate position.

Contributor : Dr. Eng. Ir. Ahmad Rusdiansyah, M.Eng

Date Create : 27/02/2009

Type : Text

Format : pdf.

Language : Indonesian

Identifier : ITS-Undergraduate-3100008030713

Collection : 3100008030713

Call Number : RSI 005.12 Abd p

Source : Undergraduate Theses of Industrial Engineering, RSI 005.12 Abd p 2007

COverage : ITS Community Only

Right : Copyright @2007 by ITS Library. This publication is protected by copyright and permission should be obtained from the ITS Library prior to any prohibited reproduction, storage in a retrieval system, or transmission in any form or by any means, electronic, mechanical, photocopying, recording, or likewise. For information regarding permission(s), write to ITS Library

Full file - Member Only

If You want to view FullText...Please Register as MEMBER

Contact Person :

Mr. Edy Suprayitno (edy_supra@its.ac.id)

Mrs. Ansi M. Putri(ansi@its.ac.id)

Mr. Agus Setiawan (setiawan04@its.ac.id)

Mrs. Dewi Eka Agustina (dee@its.ac.id)

Thank You,

Nur Hasan

ITS Digilib Supervisor