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A Design and Implementation of Vehicle Delivery Planning System Based on Costs for the logistics system-based Algorithm

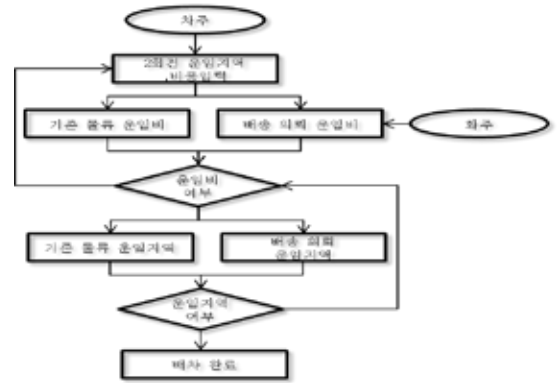
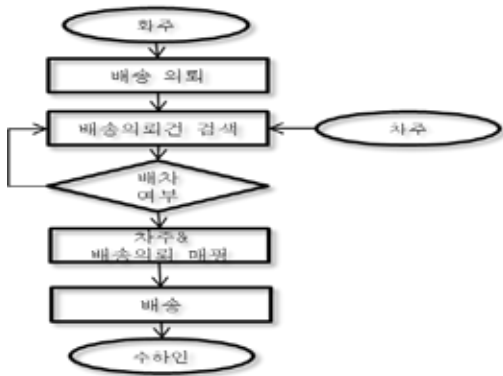
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**Dept. of Computer Science, Korea University
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, GIS, GPS
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1. 가 ,
가 가 가
가 가 가 가
[1]. 3PL(Third Party Logistics)
가 [2][3][4].
(VRP: Vehicle Routing Problem) , 가
(VSP: Vehicle Scheduling Problem) 2.
Dantzig Ramser[2] EDI(Electronic Data Interchange to Logistics)
Bodin and Golden[3], Solomon and Desrosiers[4]
가 ,
, GIS(Geographic Information System), GPS(Global Positioning System) [5].

[6].

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[7].

3.3

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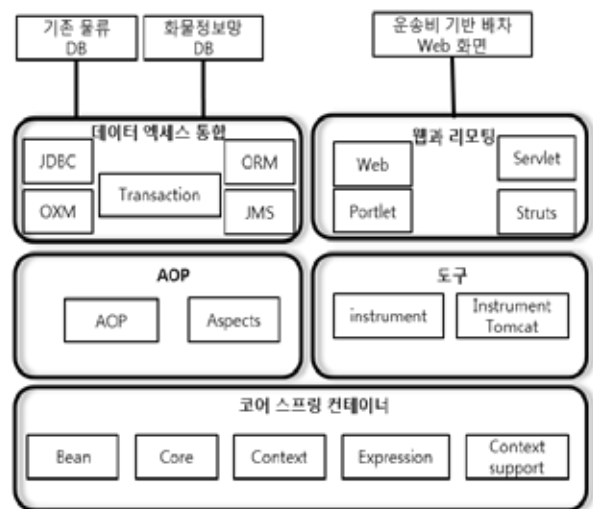
DI(Dependency Injection)

, AOP(Aspect Oriented Programming)

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				()	()
1	25			5,283,300	240,150
2	25			5,028,100	228,550
3	25			6,047,800	274,900
4	25			5,307,500	241,250
5	25			5,639,000	256,318
6	25			4,772,900	216,950
7	25			5,902,600	268,300
8	25			5,464,800	248,400
9	25			5,245,900	238,450
10	25			6,267,800	284,900
11	25			5,319,600	241,800
				5,479,936	249,088

7)



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가 25
1 5,479,936 1 30
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249,800 25 가
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3.4

Mysql, OS linux, java,

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5.

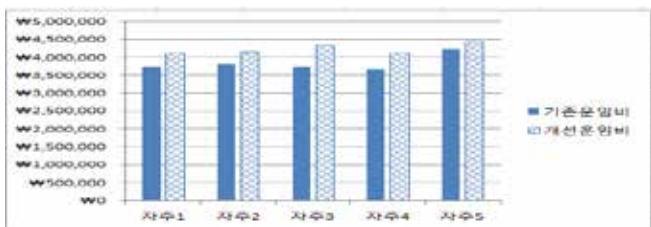
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5.2

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	08-05	08-06	08-07	08-08	08-09	08-12	08-13	08-14	08-15	08-16
1	20,000	19,500	5,000	0	30,000	83,000	99,000	58,000	30,000	40,000
2	0	53,000	119,000	57,000	-40,000	37,000	6,000	30,000	36,000	45,000
3	30,000	40,000	75,000	40,000	59,000	80,000	83,000	63,000	92,000	38,000
4	40,000	50,000	55,000	60,600	70,000	45,000	35,000	51,000	1,500	40,000
5	20,000	0	-30,000	70,000	2,000	16,000	30,000	65,000	35,000	10,100



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(9) 1,2,3,4,5 12%,
 11%, 16%, 12%, 6% 가 11%

6.

IT [8].

DTG(Digital Tachograph)

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 [2] G.B. Dantzig and J.H. Ramser, “ The Truck Dispatching Problem ”, Management Science, Vol.6, pp 80-91, 1959
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 [7] , “ 2.5 ” , 2009 , pp,50-53
 [8] http://www.mltm.go.kr