

病人历次就诊



香港大学深圳医院
The University of Hong Kong - Shenzhen Hospital

临床数据中心

常见问题 系统设置 修改密码 注销 意见反馈 帮助

欢迎: 权

患者列表 梁 岁 女 病人号: AF 我的患者

就诊索引视图 综合视图 门诊视图 住院视图 时间轴视图

主诊断 请选择 就诊类型 请选择 就诊科室 拼音(多选) GO

 2017- -09 15:14 门诊 门诊 新 高血压,冠心病,PC...	 2017- -11 15:11 门诊 门诊 黎 淋证(湿热下注,肾虚...	 2017- -06 14:27 门诊 门诊 张 老年性	 2017- -03 14:36 门诊 门诊 黎 淋证(湿热下注,肾虚...
 2017- -28 14:27 门诊 门诊 熊 LUTS,下腹部不适...	 14:03 门诊 门诊 罗 LUTS	 2017- -16 14:10 门诊 门诊 罗 LUTS	 2017- 门诊 门诊 吴 高血压,冠心病,PC...
 2017- 07 14:20 门诊 病门诊 吴 手麻,高血压,冠心病...	 14:26 门诊 门诊 刘 高血压,冠心病,PC...	A2东区  2017- -27 15:41 - 2017- 10:07 出院 汪	 2017- 14:49 门诊 门诊 赵 胸痛 冠心病? ...



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检验信息闭环展示

检验详细

检验名称	报告日期
粪便隐血(OB)	2017-
糖化血红蛋白	2017-
甲状腺功能二项	2017-
尿常规 (3)	2017-
大便常规(1)	2017-
交叉配血	2017-
尿酸	2017-
随机血糖 (急)	2017-
B型钠尿肽 (BNP) (急)	2017-
肝功能六项 (急)	2017-
肾功能四项(Na,K) (急)	2017-
心肌酶谱三项 (急)	2017-
血清肌钙蛋白I (TPI) (急)	2017-
血常规 (22)	2017-

随机血糖...x

检验医嘱信息

医嘱跟踪

报告2017

检验项目

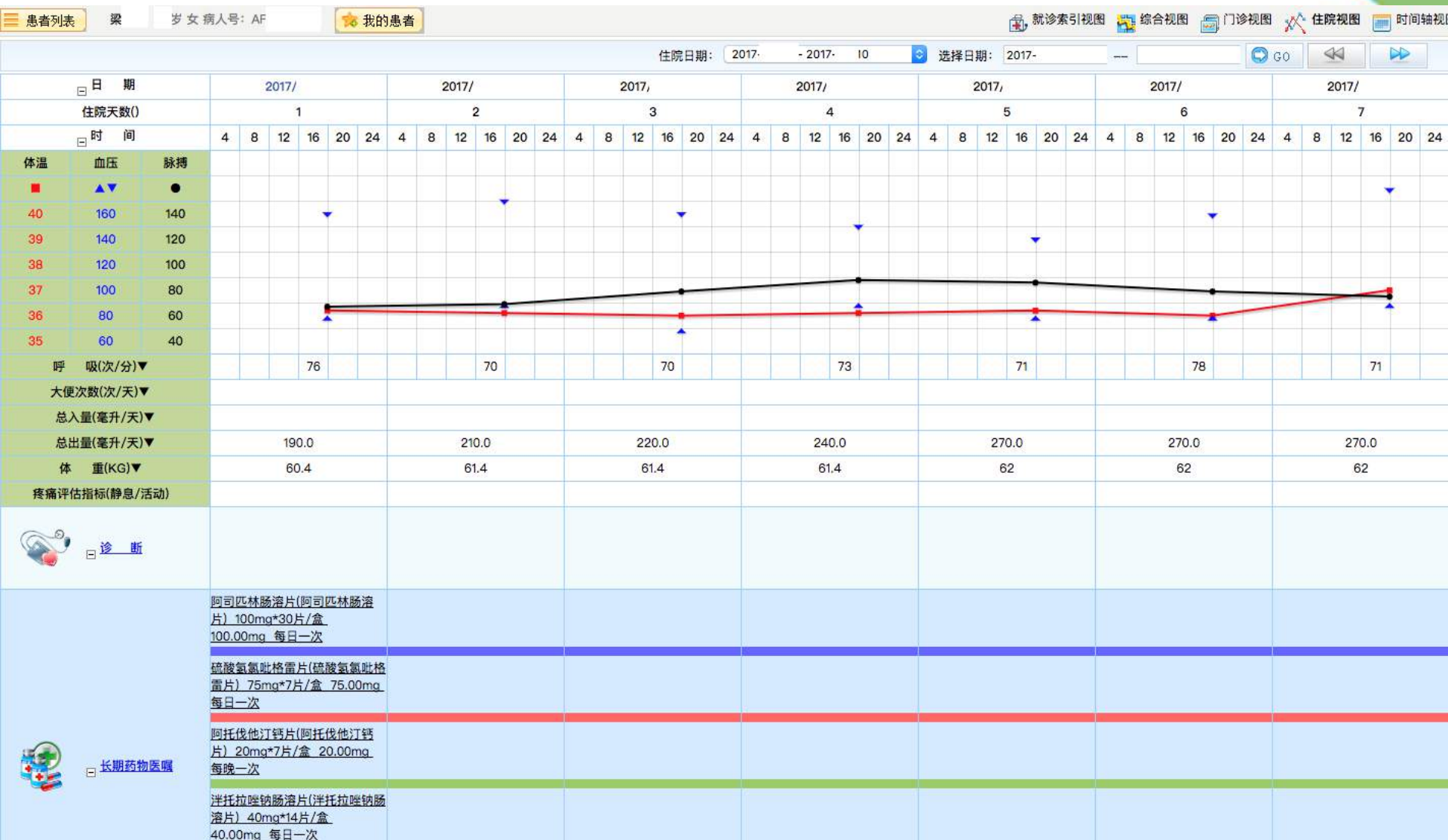
观看路径动画



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统一展示视图



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历史趋势分析

尿酸



尿酸

检验具体项目名称	检验值	单位	正常参考值范围	警告参考值范围	备注
尿酸	365.0 ↑	umol/L	142.8-339.2	-	



历次对比结果及图形

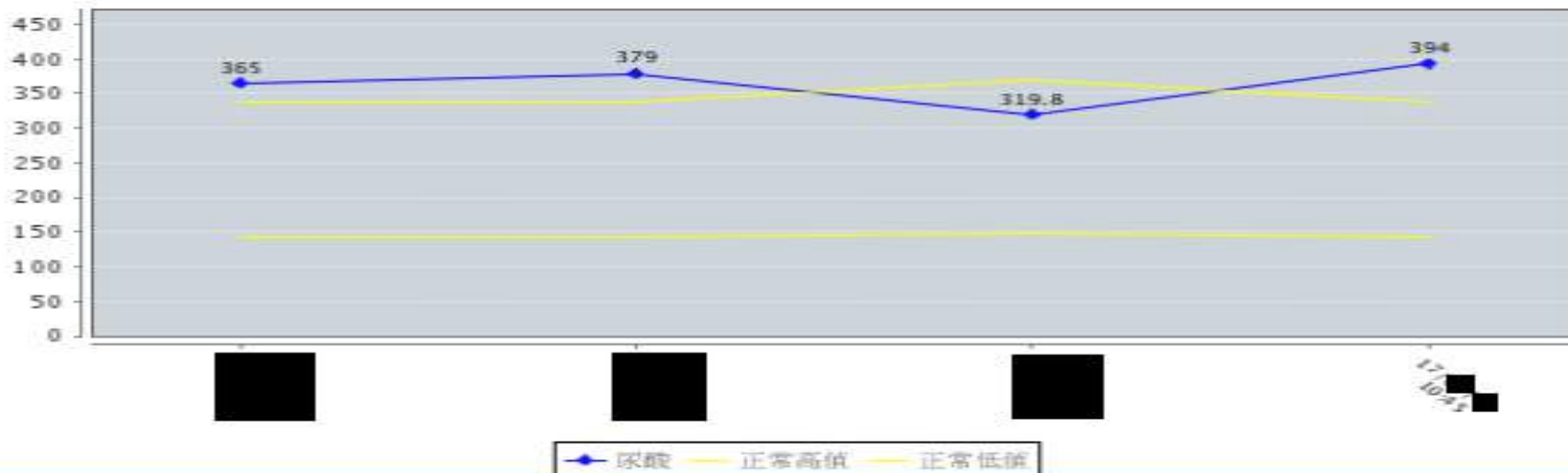
2017- - 365.0 ↑	2017- - 379.0 ↑	2017- - 319.8	2017- - 394.0 ↑					
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共4条记录! 第1页/共1页

1

GO

尿酸



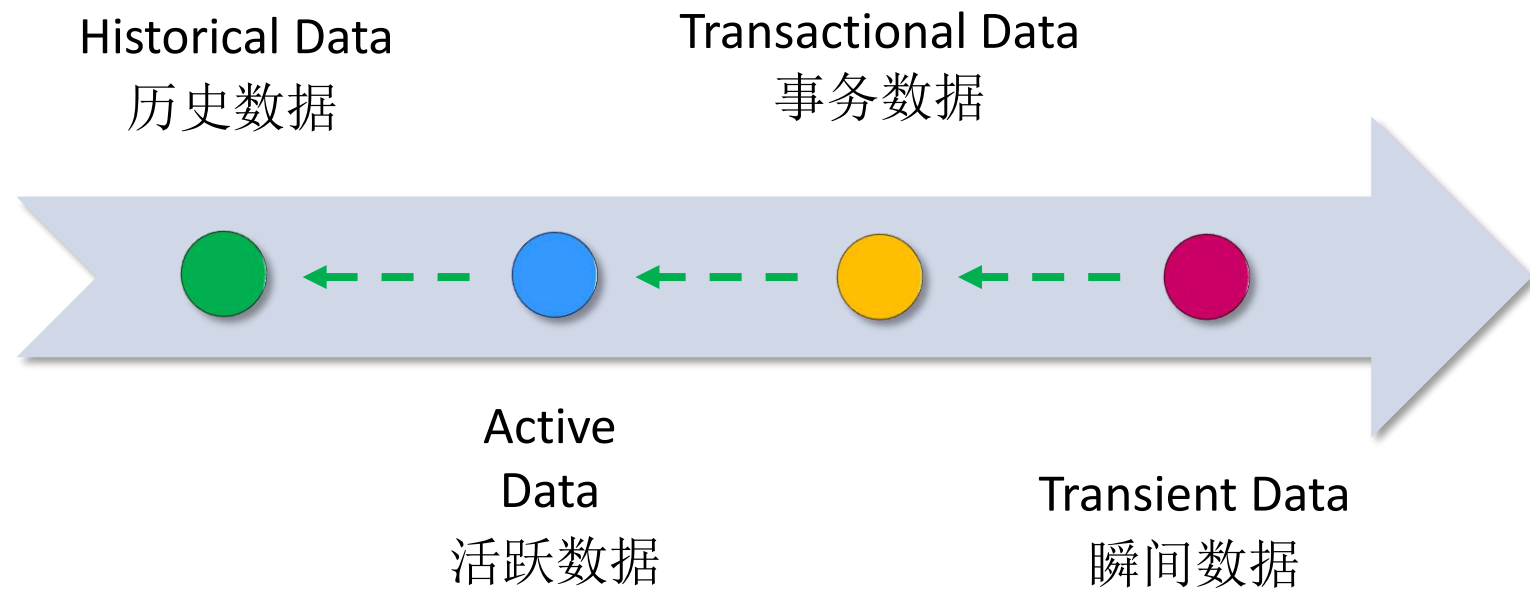
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6. 医疗大数据平台



The Big Data Steaming Model 大数据的连续模型



数据管理的大挑战 Major Challenges

- 如何把多个数据中心不同的数据模型融合在一起？
- 如何储存、管理、应用从多个数据中心转移过来的海量数据？

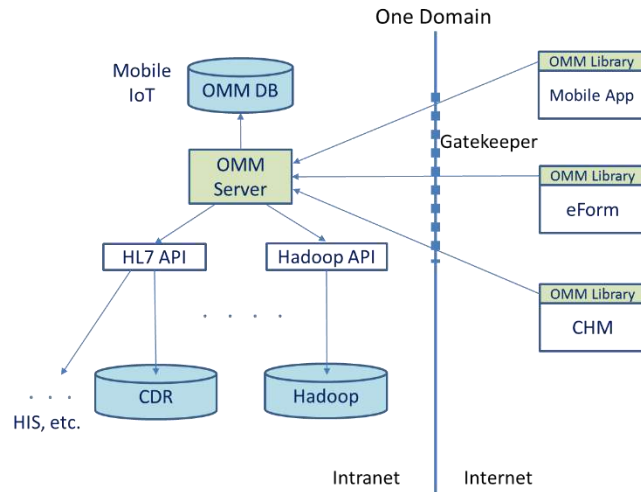


Big Data Project Considerations 大数据项目的考虑

- Data Collection （收集） Where data is coming from?
- Data Cleansing （清洗） Quality of data
- Data Collation （重整） Data mapping and weight factor
- Aggregation （集结） Distributive data sources
- Indexing （索引） Data that cannot be found is useless
- Querying （查询） The ultimate goal is to extract wisdom

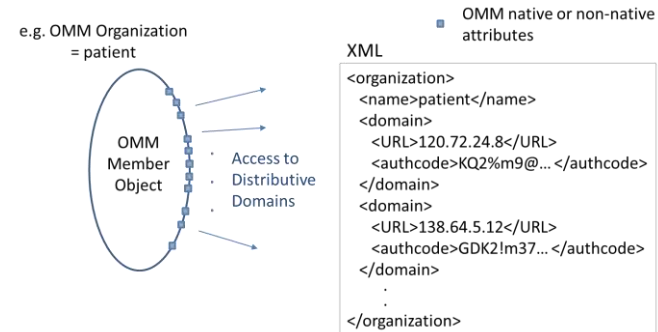


分布式大数据模型 Dtributive Big Data Model



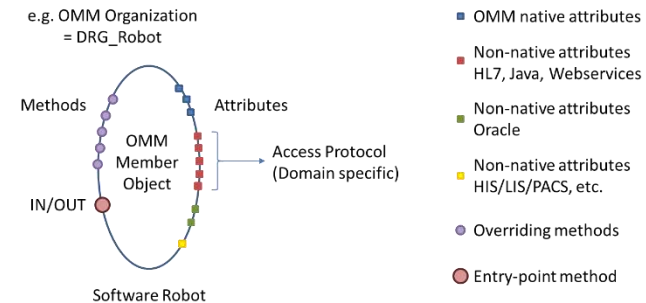
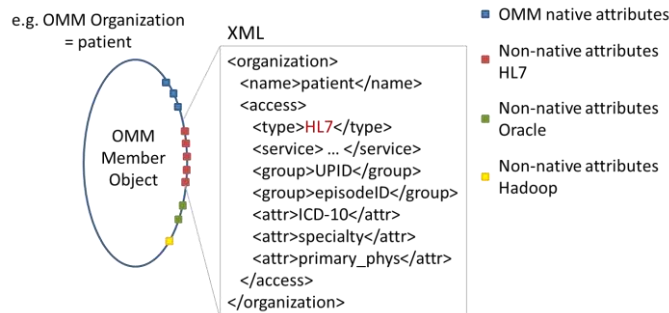
OMM Distributive Big Data Model

Central Definition on the Virtual Big Data Center



OMM Organization – a Unit of Intelligence

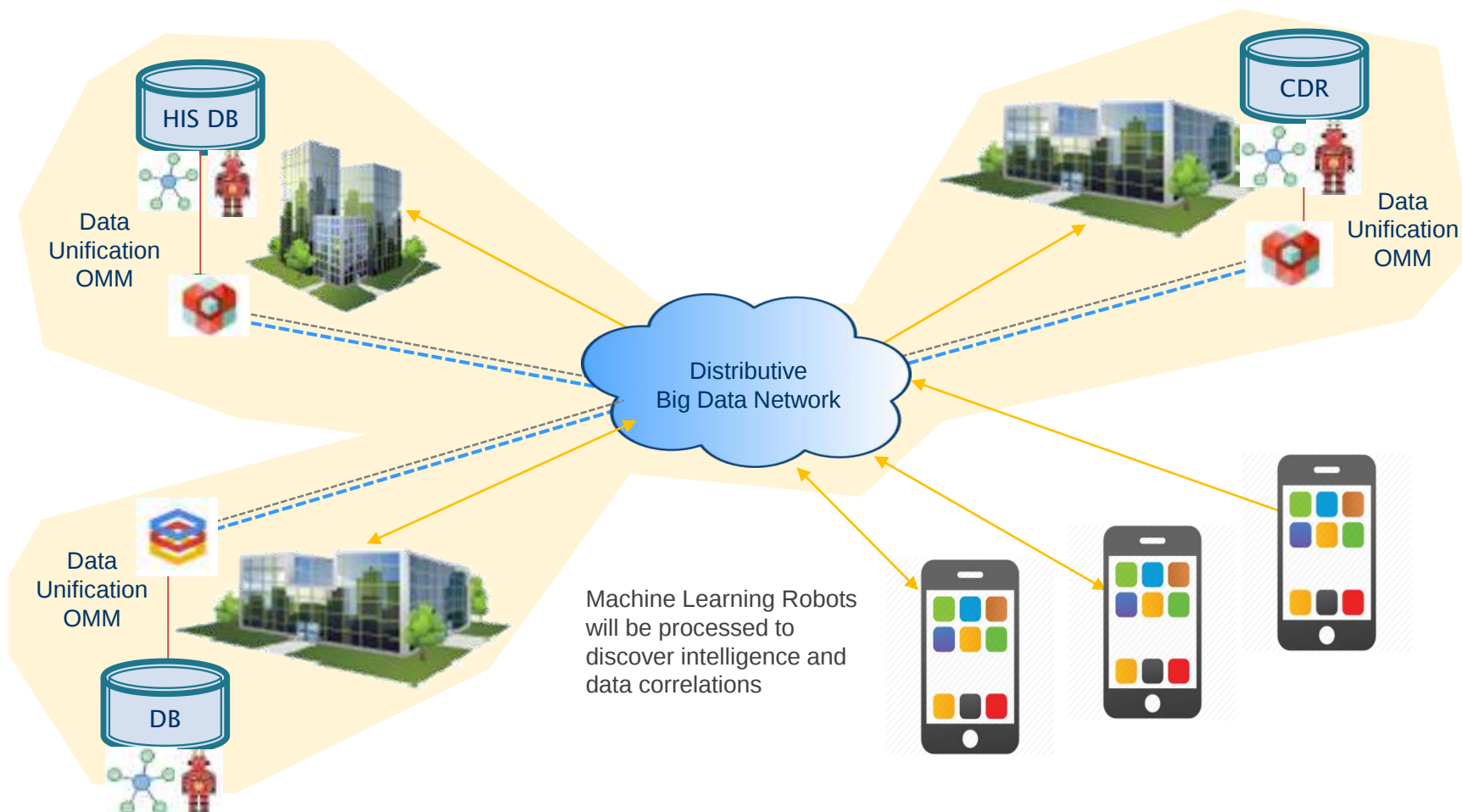
Local Definition within a Domain



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分布式的大数据与机器学习平台



OMM Robots for Machine Learning

[▶ Create New Model](#)

Healthcare Robot Models

H-1701 Diabetes Clustering Study (糖尿病聚类研究)

Organization National Institute of Diabetes and Digestive and Kidney Diseases,
Johns Hopkins Hospital (美国约翰霍普金斯医院)

Description Based on 8 attributes of a Diabetes patient to discover correlated clusters in the data. By default uses three clusters. Attributes: Age, Diabetes pedigree function, Body mass index, 2-Hour serum insulin, Triceps skin fold thickness, Diastolic blood pressure, Plasma glucose concentration, and No. of times pregnant (opt).

Price Free



H-1702 Diabetes Patient Care Service Quality (糖尿病患者护理服务质量)

Organization Hong Kong Hospital Authority (香港医管局)
and the University of Hong Kong (香港大学)

Description Review the past two years' of Diabetes patients data of a hospital, based on data quality



Remove the past two years of Diabetes patients data of a hospital based on data quality and outcome, determine if the hospital's Diabetes patient care complies with International standard. Provide recommendation to the hospital for improvement.



Price US\$ 1000 / year

H-1703 Type-2 Diabetes - City Burden Analysis (2型糖尿病 - 城市负担分析)

Organization School of Public Health, National University of Singapore (新加坡国立大学公共卫生学院)

Description Based on the current population characteristics of a city, apply Prof. Alex Cook's model to project Type 2 Diabetes burden of the city in the next 30 years.

Price US\$ 10000 / year



H-1711 DRG Analysis (按病种打包分析)

Organization The University of Hong Kong-Shenzhen Hospital (香港大学深圳医院)

Description Perform analysis on patients' total episode cost of a certain ICD-10 code within a period of time. Evaluate a recommended pricing for Disease Related Group charging.

Price US\$ 100 / year



Distributive Big Data & AI

OMM Robot for Machine Learning

Robot Model

H-1711 DRG Analysis (按病种打包分析)

Clone

Back

Perform analysis on patients' total episode cost of a certain ICD-10 code within a period of time. Evaluate a recommended pricing for Disease Related Group charging.

The University of Hong Kong-Shenzhen Hospital (香港大学深圳医院)



DRG-001



DRG-002



Robot Information

Robot ID **H-1711-39412-002-343043**

Robot Name

Description



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Description

Study the DRG pricing for different hospitals. In this robot, we will launch on three different hospitals to compare the cost of a certain ICD-10 disease to decide on a combined DRG pricing.

In Service Since

2017-08-24 08:24

Algorithm**Program**

org.hkusz.h.main.DrgEntry

evalEntry()

Condition

ICD10='E04.200' && CheckInDate>='2016.01.01' &&
CheckOutDate<='2016.8.31'

Learning rate (α)

0.03

Regularization parameter (λ)

10000

Initial weight (θ)

0.001

Learning Sample**Size Limit**

1,000,000+

Time Limit

15 min

Domains**Node 1**

collabris.cn

●●●●●●●●

Node 2

120.92.140.186/PRM

●●●●●●●●

Node 3

cpm.egiommm.com

●●●●●●●●

[Add new node](#)

Save

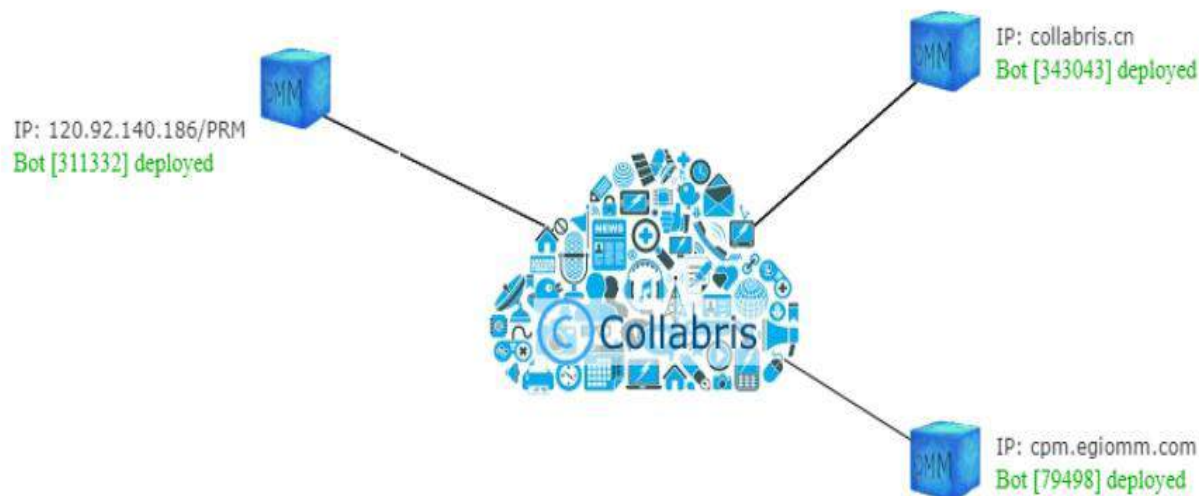
Deploy

Back



OMM Robot: DRG-002

Distributive nodes : 3
Program : org.hkusz.h.main.DrgEntry.evalEntry()
Condition : ICD10='E04.200' && CheckInDate>='2016.01.01'
&& CheckOutDate<='2016.8.31'



Launch

Back

Close



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CPM Home

Omm Robots

Edward C.

collabris.cn/bots/botsCanvas.jsp?id=343043

AppsGmailCPMMeetWEPRMHK新聞My Yahoo!HKU Portal繳費通港大深圳医院电邮港大医院 CPMHKUSZH TWiki港大医院 HiringOther bookmarks

OMM Robot: DRG-002

Distributive nodes: 3

Program: org.hkuszh.main.DrgEntry.evalEntry()

Condition: ICD10='E04.200' && CheckInDate>='2016.01.01' && CheckOutDate<='2016.8.31'

IP: 120.92.140.186/PRM

Total cases: 104

Disease cost Average (¥): 10904.48

Disease cost Median (¥): 9770.0

Std Devs (¥): 5331.19

[Histogram on FSUM1](#)

[Scattergram: FBIRTHDAY vs. FSUM1](#)



IP: collabris.cn

Total cases: 153

Disease cost Average (¥): 9468.14

Disease cost Median (¥): 9700.0

Std Devs (¥): 2650.8

[Histogram on FSUM1](#)

[Scattergram: FBIRTHDAY vs. FSUM1](#)

IP: cpm.egiommm.com

Total cases: 138

Disease cost Average (¥): 9161.99

Disease cost Median (¥): 9270.0

Std Devs (¥): 2516.64

[Histogram on FSUM1](#)

[Scattergram: FBIRTHDAY vs. FSUM1](#)

Launch

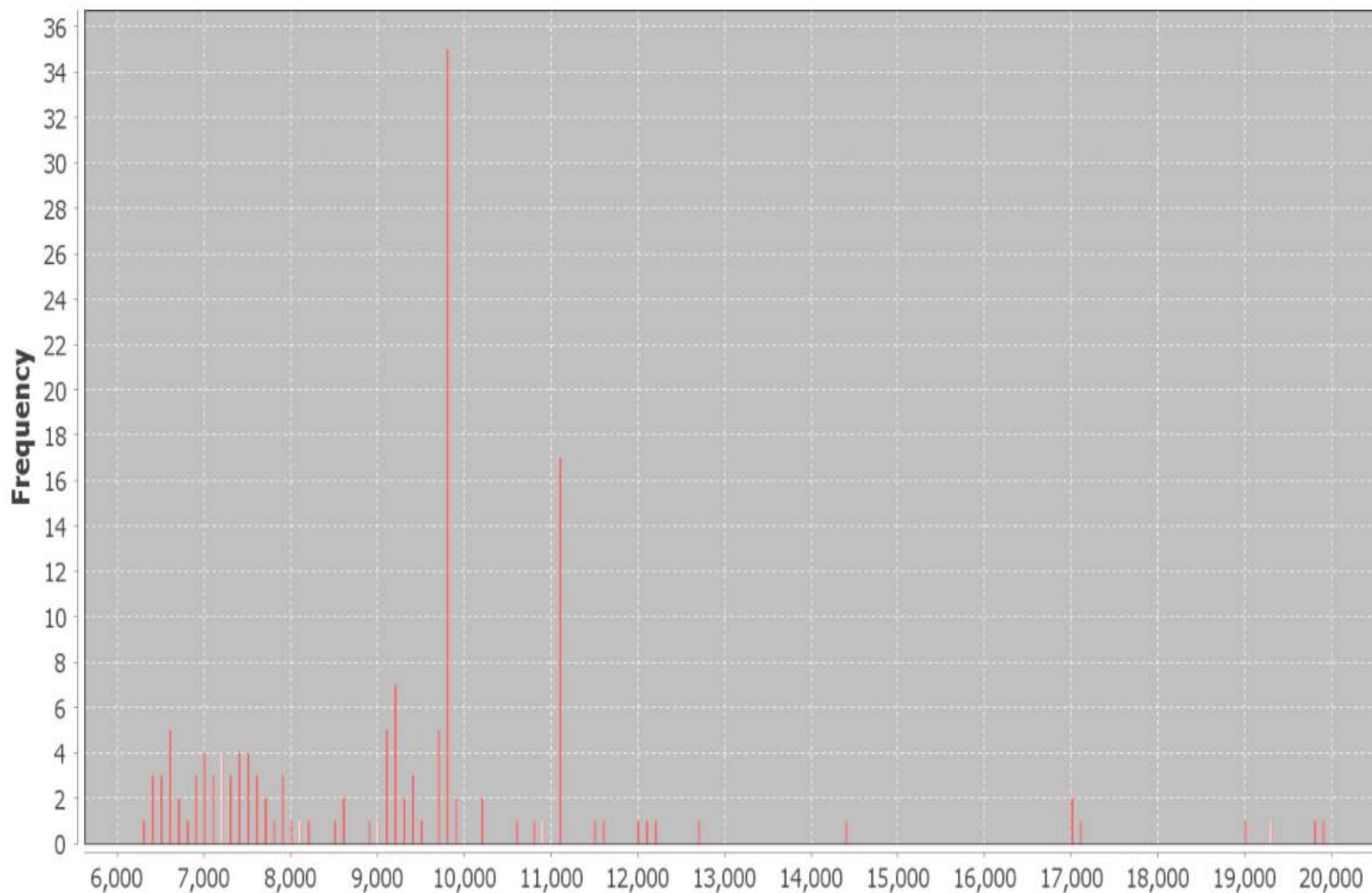
Back

Close

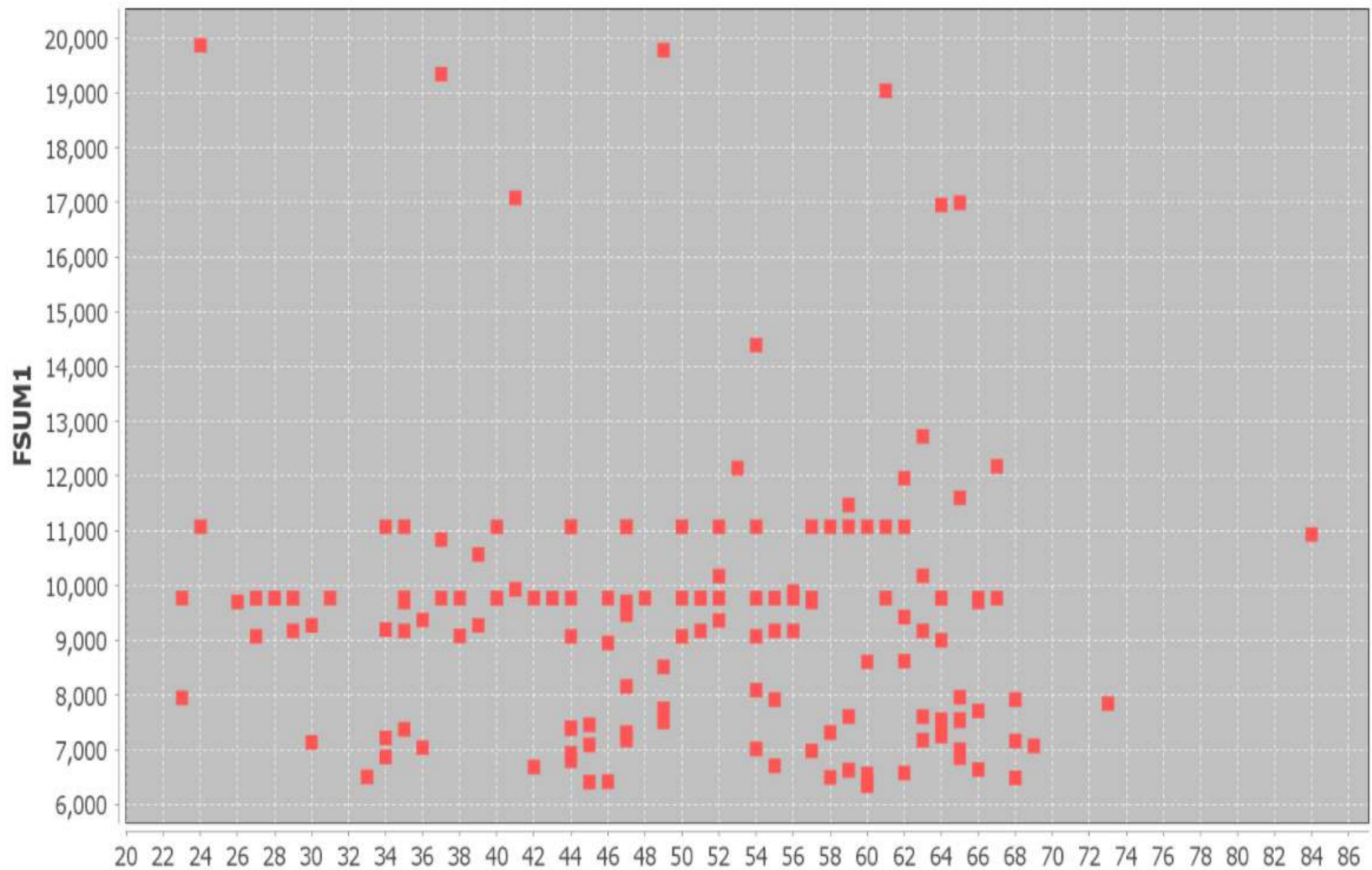
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Histogram on FSUM1 (collabris.cn)



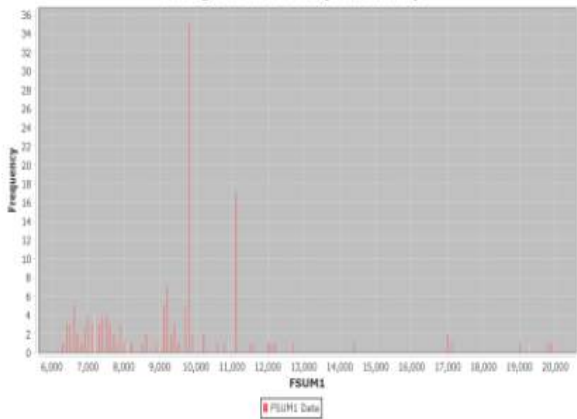
Scattergram: FBIRTHDAY vs. FSUM1 (collabris.cn)



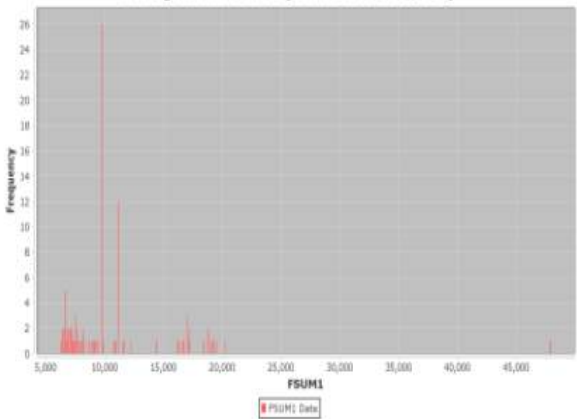
Big Data Analytics

OMM Robot: DRG-002

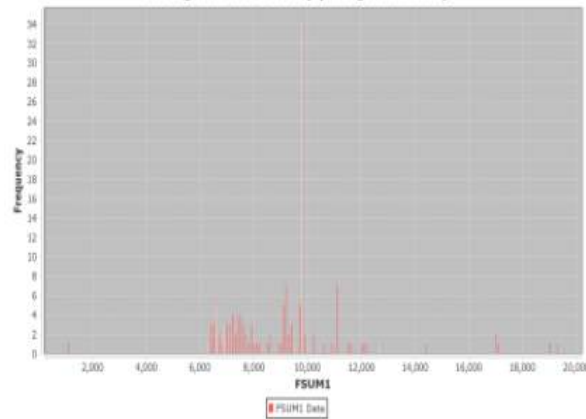
Histogram on FSUM1 (collabris.cn)



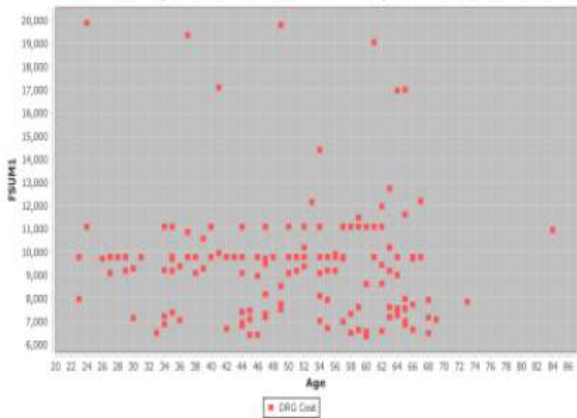
Histogram on FSUM1 (120.92.140.186/PRM)



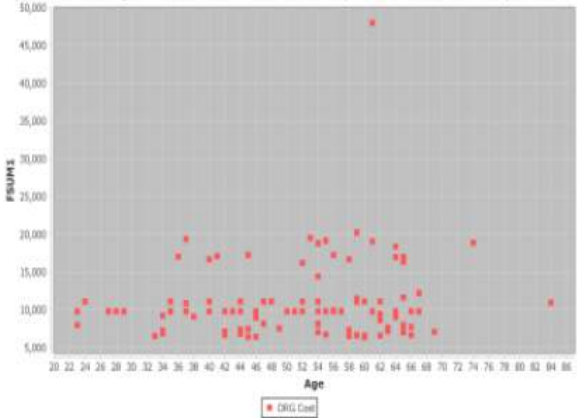
Histogram on FSUM1 (cpm.egiommm.com)



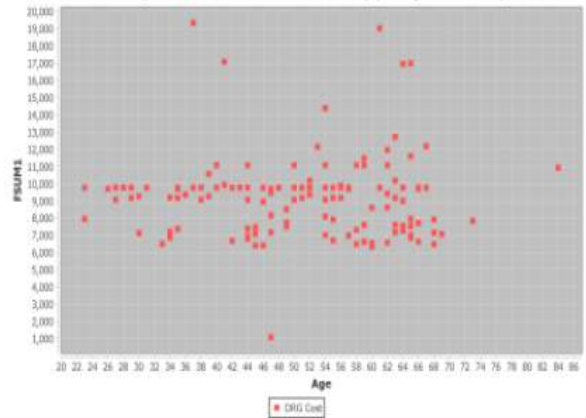
Scattergram: FBIRTHDAY vs. FSUM1 (collabris.cn)



Scattergram: FBIRTHDAY vs. FSUM1 (120.92.140.186/PRM)



Scattergram: FBIRTHDAY vs. FSUM1 (cpm.egiommm.com)



谢 谢！



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乐颖

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