QCon[上海站] 全球软件开发大会2016

新媒体 深度学习

SPEAKER

孙子荀





促进软件开发领域知识与创新的传播



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新媒体

深度学习













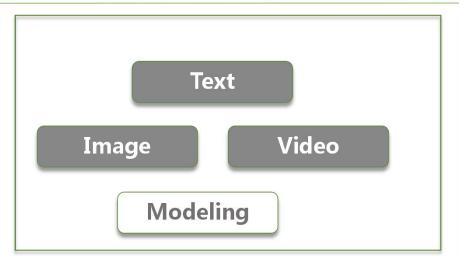


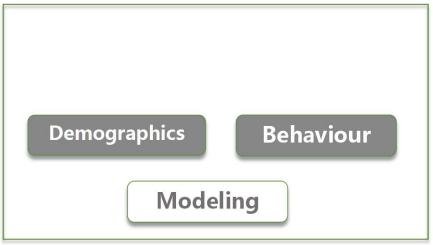














Content



Feeds

PUSH

Search

QA

Recommation Tech

ComputerAds Tech

Search Engine Tech QA/KB Tech

PUSH



User

• How to Choose Push Time

Feeds

• How to Recommend Image

Content

- How to Estimate Article Rating
 - How to Select Cover Picture

PUSH 1



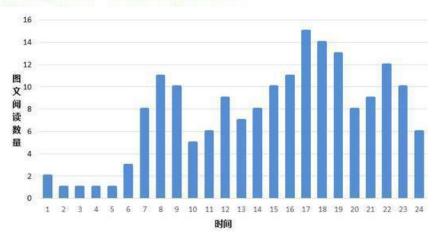
新浪新闻	20
网易新闻	3
虎扑体育	60
天天快报	6
搜狐新闻	2
腾讯新闻	1
一点资讯	8
今日头条	14
凤凰新闻	3

● 乘坐交通工具、睡觉前、午休时是**用户集中的"无聊时间"**,但又不能进行其他娱乐活动,是新闻客户端使用的高峰期。



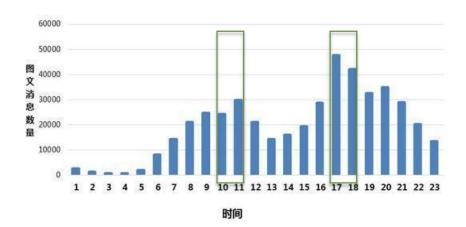
公众号用户阅读时间分布



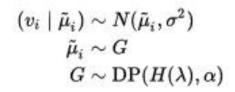


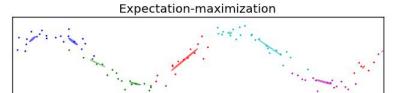


公众号每日推送时间分布



PUSH²

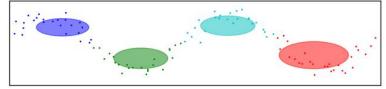




Dirichlet Process,alpha=0.01



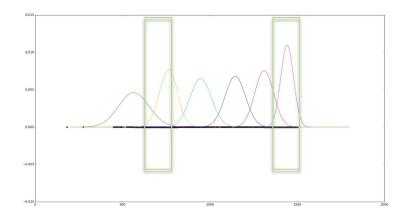
Dirichlet Process, alpha=100.

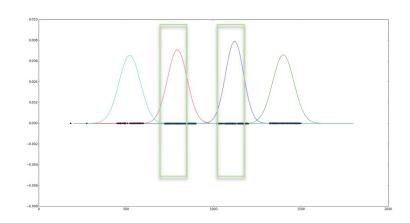


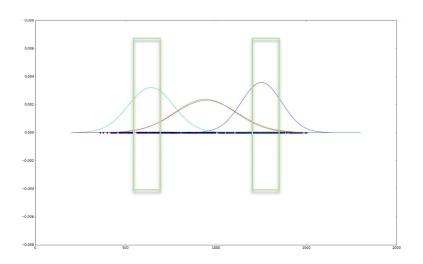
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2016092217	7	0	
2016092217	7	0	

2016-09-19 06:29:55	109
2016-09-19 06:29:55	109
2016-09-19 17:15:58	109
2016-09-19 17:15:58	109
2016-09-20 06:08:48	109
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2016-09-20 09:02:31	109
2016-09-20 12:13:21	109
2016-09-20 12:13:21	109
2016-09-20 13:35:27	109
2016-09-20 13:35:27	109
2016-09-20 15:16:47	109
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2016-09-21 09:16:23	109
2016-09-21 09:16:23	109
2016-09-22 05:49:13	109
2016-09-22 05:49:13	109
2016-09-22 09:30:07	109
2016-09-22 09:30:07	109
2016-09-22 17:54:43	109
2016-09-22 17:54:43	109

PUSH³







- D:1-5,6-7; H:23-4
- OverSampling
- Top, Random

Content¹



- ☐ face** Make Face Recognition so Easy to Use SIGNUES

- More than one Person
- Non Human

当牛头梗遇上这样的摄影师, 的节奏啊



唯美创意家居 1分钟前

大雪天就不要带短腿出来散步了,心疼!



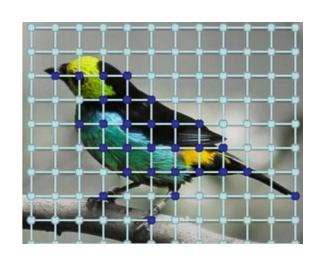
宠上天

6评 (x)

Content²

Image Segmentation

主动轮廓线 Snake Model Mean shift Ncuts Graph cut



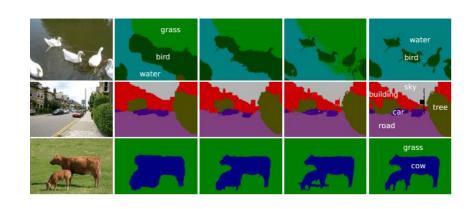
Semantic Segmentation

Hammersley-Clifford

MRF & Gibbs Energy

$$P(X|I) = \frac{1}{Z(I)} \exp(-\sum_{c \in C_{i}} \phi_{c}(X_{c}|I))$$

$$E(x) = \sum_{i} \psi_{u}(x_{i}) + \sum_{i < j} \psi_{p}(x_{i}, x_{j})$$



Content Modeling¹



很多操作系统教科书将正在CPU上执行的进程 定义为RUNNING状态、而将可执行但是尚未被 调度执行的进程定义为READY状态,这两种状 态在linux下统一为 TASK_RUNNING状态。

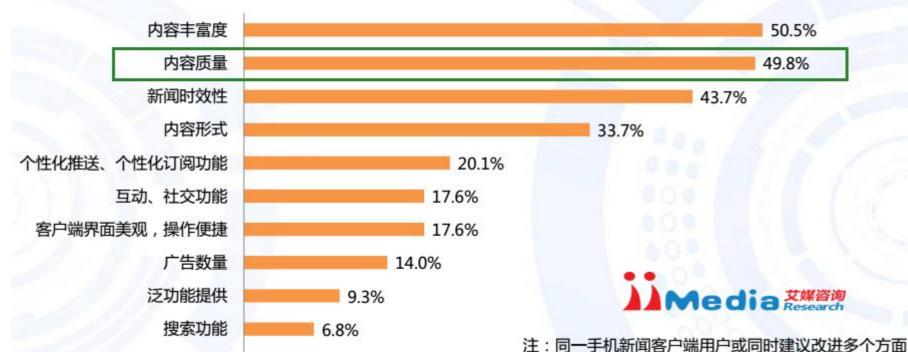
S(TASK_INTERRUPTIBLE),可中断的睡眠状态。



当向量出现在防御象限时,意味着企业应该集中精力 克服内部弱点并回避外部威胁,防御型战略包括紧 缩、剥离、结业清算和集中多元化经营等。

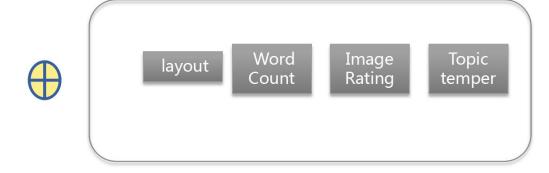
当向量出现在竞争象限时,表明企业应该采取竞争性 战略,包括后向一体化、前向一体化、市场渗透、市

2016上半年中国手机新闻客户端用户对产品的改进建议



Content Modeling²

Content Rating

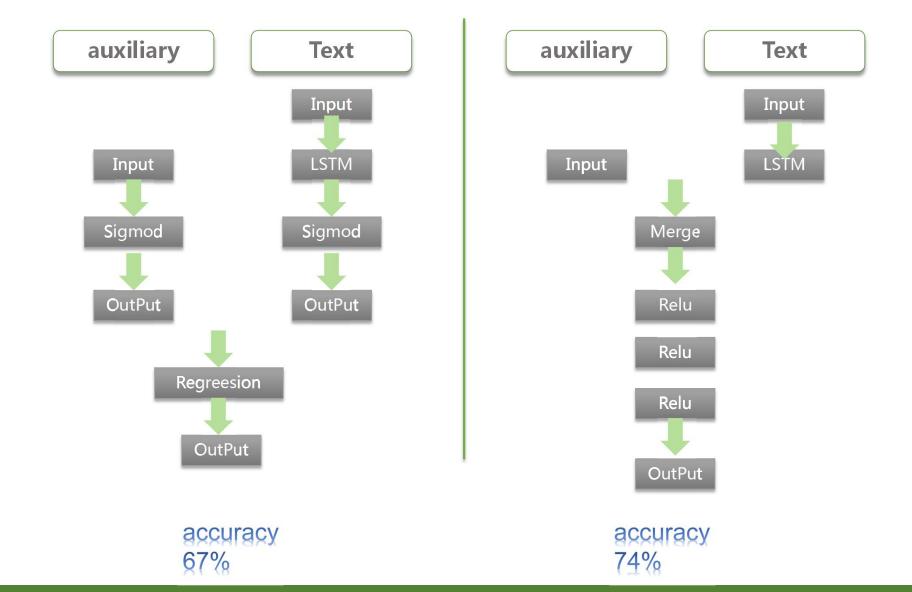




Read thoroughly Detailed reading Long stay on Page

- PV > 500
- Image -> [Image][size]
- Title -> [|]
- Word Embeding

Content Modeling³



Experimental System

Boss System

Retrieval System

Strategy System

CTR

Index

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Index

Index

ALG

ALG

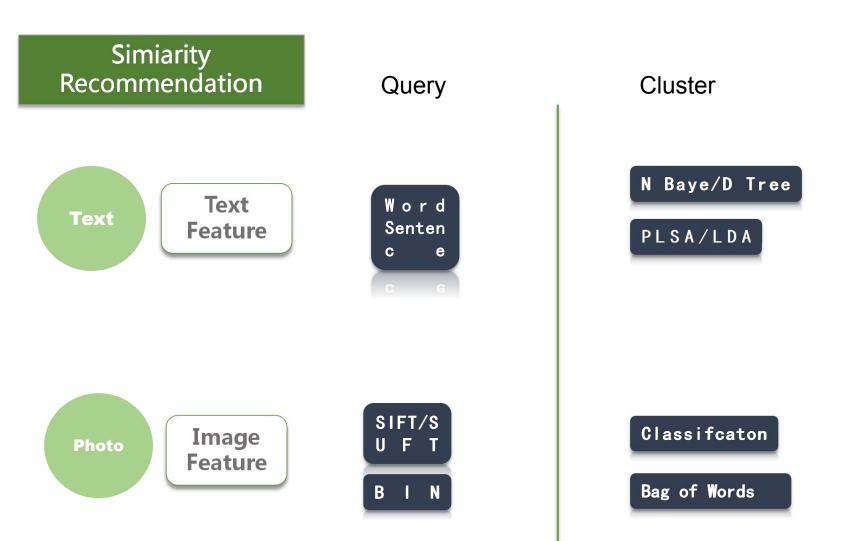
Content Modeling System

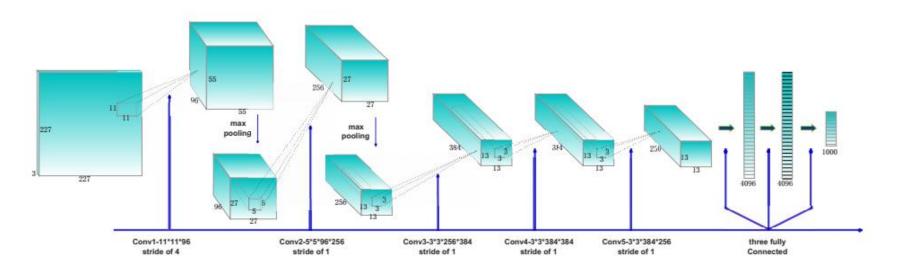
User Modeling System

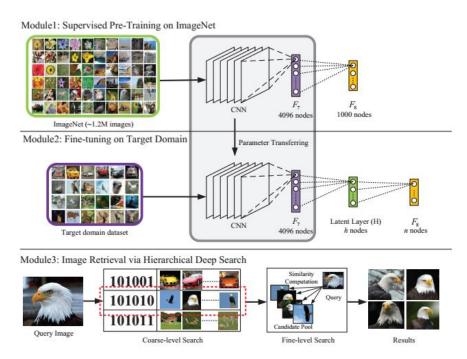
Item / Content

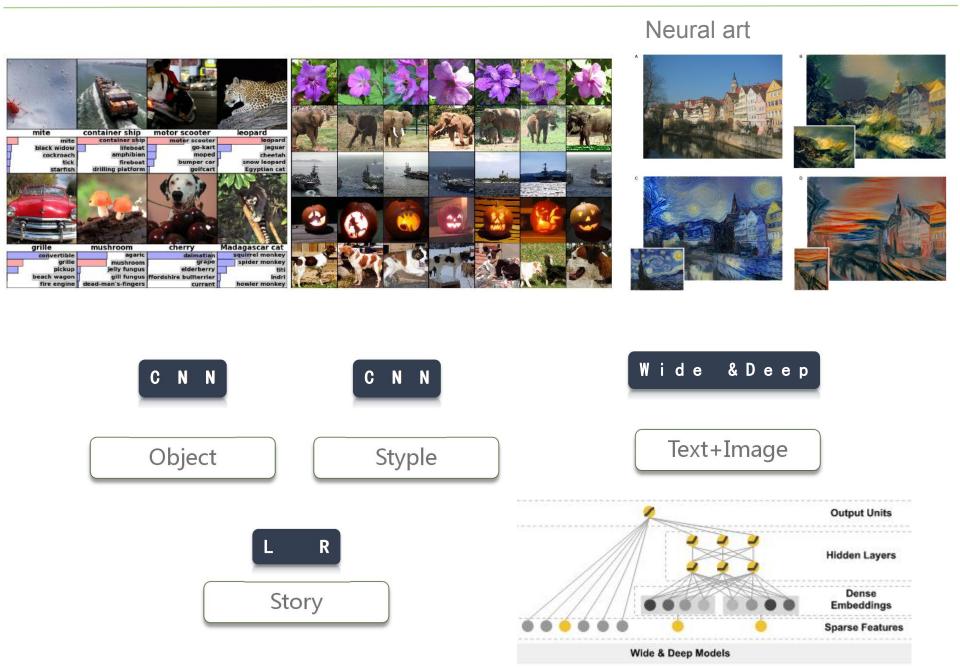
Log

D A T A











[r1]人间圣地,





[r1]荒郊野岭惊

[r4]又香又辣-

[r1]近200年来世界历史上的经典照片,最 后一张最可笑

[r1]空中俯看宁

[r3]麻辣鲜香

[r1]世界历史上的九大军事将领,中国的这 位让世人憎恨



[r3]中原人特色 到嘴里直流泪

[r3]除了好色和当皇帝, 袁世凯还做了些什 1



[r1]朝鲜的金网 景的雄奇险秀

[r3]排骨您这样 钙助长高

[r4]老照片回顾 老上海百年前的十里洋场



[r1]旅行中这些 吗?



[r4]鲜虾加入i 都爱吃!



[r3]上甘岭一战成名,曾身兼党政军数职, 毛主席提名他做中央副主席。

7月14日



International Software Development Conference