

CDN vector $V_c \in \mathbb{R}^n$
 User vector $V_u \in \mathbb{R}^m$, user label $l_u [1]$
 preference model: $(V_c, V_u) \Rightarrow q$ (quality of session)
 or $(V_c, l_u) \Rightarrow q$

workload predictor 时间

workload manager CDN信息

preference model CDN信息, 用户label

decision maker 右图

output
 预测用户量(每个类) $c_1, c_2, \dots, c_L, \sum_i c_i = C$

分配用量(每个CDN) $a_1, a_2, \dots, a_p, \sum_i a_i = C$ CDN数目

