

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)  $a_1, a_2, \dots, a_p, \sum_i a_i = C$

