
L	set of city locations
C	set of place types
U	set of city users
E	set of city events
$L(e)$	set of event places
$U(e)$	set of event attendees
G	city social graph
$G(e)$	social network of event attendees
Γ_u	neighborhood set of user $u \in U$ in G
N_u^c	accumulated # check-ins for user u at places of type c
N_u^h	total # check-ins between hours h and $h + 1$ for user u
