Notation	Definition
\mathcal{L}	set of links
L	total number of links
h_{lk}	channel gain from link l's transmitter
	to link k 's receiver
Н	link gain matrix
p_l (in vector \mathbf{p})	transmission power of link l
n_l (in vector \mathbf{n})	noise power for link l
γ_l	SINR of link l
$\gamma_l(\cdot)$	SINR function of link l
$U_l(\cdot)$	utility function of link l
$x_l ext{ (in vector } \mathbf{x})$	ratio of link l's utility to the total network utility
r_l (in vector \mathbf{r})	transmission rate of link l
$r_l(\cdot)$	transmission rate function of link l
α, β	penalty multipliers