Fig. 13. Throughput for each STA vs $\Delta r$ with one additional TCP flow other than client and provider (other). $\Delta r$ indicates the required additional throughput from the client. The model in 8 was used.

Fig. 14. Average throughput of each STA vs. $\Delta r$ in single-AP network with provider, client, other STA. Bottleneck link is IEEE 802.11a WLANs with physical transmission rate of 24 Mbps.

Fig. 15. Average throughput of each STA vs. $N_o$ in network with provider, client, and other $N_o$ STAs. Bottleneck link was IEEE 802.11a WLAN with physical transmission rate of 24 Mbps. RTTs between AP and corresponding servers were identically 10 ms.