with performance degradation due to rate-diversity/fairness and TCP behaviour. On our testbed we have demonstrated that it improves downlink goodput by 400-700 % and enhances user experience by reducing average response time for a request by 30-40 %. We have tested *WiFox* for robustness and have demonstrated that under various test conditions it outperforms the existing WiFi implementations. WiFox requires modifications to AP's software only and is adaptive to various traffic loads, making it a suitable candidate for wide scale deployments.

There are few open problems related to design of WiFox: exploring relationship between different traffic patterns and appropriate APC variants, characterizing performance of WiFox for MIMO based 802.11n APs and developing a priority aware scheduler enabling QoS support. WiFox improves the overall network goodput achieved thus we expect it to improve the performance for real time applications also for LAEs. We believe that it should be possible to ensure QoS and support real time applications with appropriate tuning of prioritization parameters and we intend to pursue this direction in future. Our testbed currently supports evaluation for 802.11g only and we plan to further extend our analysis for 802.11n also.

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