

A method for estimating a transmitted signal. A wireless signal is received that includes a pilot channel and at least one other channel. The wireless signal is processed using a rake receiver front end to provide a plurality of front end outputs. Channel estimation is performed on the plurality of front end outputs to obtain a plurality of channel estimates. The channel estimates are then used to combine the plurality of front end outputs into a combined signal. A transmitted signal is estimated using an equalizer and the combined signal. The equalizer includes a filter with a plurality of taps that are adapted through use of an adaptive algorithm that uses an estimated pilot estimated from the received wireless signal. The pilot channel is transmitted in the wireless signal that included the at least one other channel. The estimated pilot is extracted and provided to the adaptive algorithm.