For the reliable communication it is necessary to successfully transmit data. Typical aggressive packet combining technique is a very efficient technique in the data communication for the error detection and correction in wireless communication. But there are some demerits of typical APC. In this new technique some challenges of APC are overcome by using Markov model of the channel. Markov’s law [1] suggests the possibility of channel state is three; Good state, moderate state and bad state. For three states, different methods are implemented. When the channel is in good state original data is sent. When the channel is moderate state then bit combination method is used and for bad state half byte packet reversal method is used.

References


Abstract

For the reliable communication it is necessary to successfully transmit data. Typical aggressive packet combining technique is a very efficient technique in the data communication for the error detection and correction in wireless communication. But there are some demerits of typical APC. In this new technique some challenges of APC are overcome by using Markov model of the channel. Markov’s law [1] suggests the possibility of channel state is three; Good state, moderate state and bad state. For three states, different methods are implemented. When the channel is in good state original data is sent. When the channel is moderate state then bit combination method is used and for bad state half byte packet reversal method is used.
To Reduce the Error Probability of Aggressive Packet Combining Scheme in the Markov’s Three State Model


Index Terms

Computer Science Applied Sciences
Keywords

Typical aggressive packet combining scheme, markov’s three state models, half byte packet reversal, bit-combination technique.