

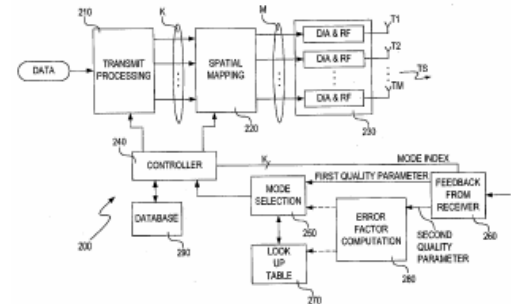
System and method of dynamically optimizing a transmission mode of wirelessly transmitted information

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Abstract of US2005099975

The present invention includes a method of optimizing a transmission mode of wirelessly transmitted data. The method includes selecting a first transmission mode based on a predetermined channel database and a first channel characterization. The first channel characterization can be based upon signals transmitted in an initial mode. An error factor is generated based on a difference between an estimated performance characteristic, and an expected performance characteristic. A subsequent transmission mode is selected based upon the predetermined channel database, the error factor and a subsequent channel characterization. The predetermined channel database can include a predetermined look-up-table that provides transmission mode selections based upon the channel characterizations. The look-up-table generally includes a plurality of quality parameter thresholds that determine the selection of a transmission mode. Another method includes receiving transmission signals that include data encoded in an initial transmission mode. A first quality parameter of the received transmission signals is measured. A subsequent transmission mode is selected based upon the quality parameter. Transmission signals are received having data encoded in the subsequent transmission mode. A second quality parameter is measured. A parameter is adjusted within selection criteria of another subsequent transmission mode based upon the second quality parameter.



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