Summary

Method and system for determining a signal vector

A method for determining a signal vector comprising a plurality of components from a received signal vector is provided comprising performing a QR decomposition of a channel matrix characterizing the communication channel via which the signal vector was received and being expanded by variance information about the noise on the communication channel carrying out a plurality of determination steps using the QR decomposition of the expanded channel matrix, wherein in each step a set of possible sub-vectors of the signal vector is determined and wherein in each step, the number of possible sub-vectors in the set is lower than a predefined maximum number, and selecting one vector of the set of possible sub-vectors determined in the last step of the plurality of determination steps as the signal vector.

Figure 2