

ABSTRACT

SYSTEMS AND METHODS TO ENHANCE SPATIAL DIVERSITY IN DISTRIBUTED INPUT DISTRIBUTED OUTPUT WIRELESS SYSTEMS

Systems and methods are described for enhancing the channel spatial diversity in a multiple antenna system (MAS) with multi-user (MU) transmissions ("MU-MAS"), by exploiting channel selectivity indicators. The proposed methods are: i) antenna selection; ii) user selection; iii) transmit power balancing. All three methods, or any combination of those, are shown to provide significant performance gains in DIDO systems in practical propagation scenarios.

FIG.1