

TRANSMITTING APPARATUS AND TRANSMITTING METHOD

ABSTRACT

5 A transmitter transmits data to a communicating
opponent with a better channel condition with use of one
or more frequency blocks including one or more carrier
frequencies. The transmitter includes a communicating
opponent selection unit evaluating the channel condition
10 for each frequency block for each of plural communicating
opponents and selecting one or more communicating
opponents from the plurality of communicating opponents,
a modulation scheme determination unit determining at
least a modulation scheme depending on the evaluated
15 channel condition, a control channel generation unit
generating a control channel indicative of the determined
modulation scheme and one or more frequency blocks
available for the selected communicating opponents to
receive a data channel, and a channel transmission unit
20 providing the selected communicating opponents with the
control channel and the data channel modulated in
accordance with the modulation scheme.

Figure 7