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(57) Abstract :

There is provided an encoder (10) for encoding input data (D1) including a sequence of numerical values to generate corresponding encoded output data (D2 or D3) characterized in that the encoder (10) includes a data processing arrangement for applying to the input data (D1) a form of differential and/or sum encoding to generate one or more corresponding encoded sequences wherein the one or more corresponding encoded sequences are subjected to a wrap around a maximum value and/or a wrap around a minimum value for generating the encoded output data (D2 or D3). Moreover there is provided a decoder (20) for decoding encoded data (D2 D3 or D4) to generate corresponding decoded output data (D5) characterized in that the decoder (20) includes a data processing arrangement for processing one or more portions of the encoded data (D2 D3 or D4) wherein the data processing arrangement is operable to apply a form of differential and/or sum decoding to one or more corresponding encoded sequences of the one or more portions wherein the one or more encoded sequences are subjected to a wrap around a maximum value and/or a wrap around a minimum value for generating the decoded output data (D5). Furthermore there is provided a codec (30) including at least one encoder (10) as aforementioned for encoding input data (D1) to generate corresponding encoded data (D2 or D3) and at least one decoder (20) as aforementioned for decoding the encoded data (D2 D3 or D4) to generate corresponding decoded data (D5). The codec (30) is capable of providing an enhanced degree of data compression in respect of the decoded output data (D5).

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