ABSTRACT



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APPARATUS, SYSTEM, AND METHOD FOR VIDEO ENCODER RATE CONTROL

A video encoder includes a programmable rate controller. In one embodiment, the programmable rate controller includes a variable bit rate controller, a constant bit rate controller, and an arbitration logic for selecting one of the two outputs. An embodiment of a variable bit rate controller tracks long-term changes to average bit rate. An embodiment of a constant bit rate controller classifies macroblock types, determines a statistical indicator of complexity for each macroblock type, and generates a target bit rate based on estimated complexity.

Fig. 2



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