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(54) Title: COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR OBJECT DETECTION AND CHARACTERIZATION

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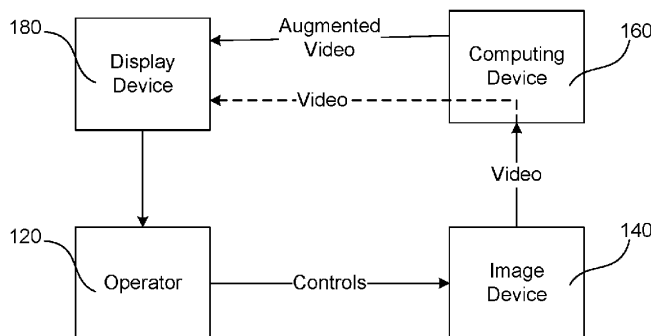


FIG. 1

(57) Abstract: A computer-implemented system is provided that receives a real-time video captured from a medical image device during a medical procedure. The real-time video may include a plurality of frames. The system may be adapted to detect an object of interest in the plurality of frames and apply one or more neural networks configured to identify a plurality of characteristics of the detected object of interest, such as classification, size, and/or location. In some embodiments, the system is adapted to identify, based on one or more of the plurality of characteristics, a medical guideline and present, in real-time on a display device during the medical procedure, information for the medical guideline.

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