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(57) Abstract :
The present invention relates to the field of an artificial-intelligence (AI) powered mobile device, and more specifically, to a mobile device incorporating an Artificial Intelligence (AI) enablement and a method of improving image quality. The AI based mobile device for image processing includes an image acquisition module for capturing an image with a sensor and converting it into a manageable entity, a storage unit configured to maintain raw image data including video having a sequence of frames, and annotations of the frames that indicate aspects of objects identified in the respective frames, a communication module for transmitting data detected by and received from the image acquisition module and position data received from the positioning device via the network system, a generation unit configured to generate a correction image in which brightness of at least part of the specified region in the captured image is changed using pixel values of pixels in the captured image, and a processing unit to generate a high-quality image of which quality is higher than that of each of the plurality of images, from the integrated features.

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