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(57) Abstract :

Image resizing is a crucial aspect of working with digital images, and a reliable resizing tool is essential for achieving optimal results. The invention proposes a system and method for resizing an image that involves adjusting its dimensions while maintaining its aspect ratio. This allows the image to be tailored to specific needs, such as printing, web design, or social media sharing. The resizing tool employs various methods, including scaling, cropping, and resampling, to modify image size. Scaling ensures proportional resizing, while cropping removes unwanted parts of the image. Resampling involves adding or removing pixels to change the image's size. To preserve image quality, resizing tools utilize advanced algorithms like Lanczos, bicubic interpolation, content-aware resizing, and seam carving. These algorithms ensure that resized images retain clarity, sharpness, and important details. Ultimately, a reliable resizing tool simplifies the process, offering flexibility, precision, and the ability to customize image resolutions without compromising quality.

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