

Abstract

Research Title : Accelerated Photo Editor on Web using WebGL
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In this Research, image processing algorithms are improved the performance by develop from sequential to parallel. Generally, image processing algorithms require more resources when source image is larger. This research starts with analysis the sequential algorithm that is hotspot function and applied WebGL which is a framework for developing programs to execute on heterogeneous systems. The results are compared between sequential on CPU, parallel on CPU, parallel on Integrated GPU, and parallel on Dedicated GPU. Speedup of parallel algorithm on dedicated GPU in this research is achieved to 2X compared with sequential one.