

BAB V

KESIMPULAN DAN SARAN

V.1. Kesimpulan

Dari pembahasan Komputasi Paralel untuk *Inpainting* Citra Digital dengan metode *Perona-Malik* di atas, dapat ditarik beberapa kesimpulan, yaitu:

1. Aplikasi untuk *inpainting* citra digital dengan metode *Perona-Malik* yang berjalan pada CPU dan GPU dengan CUDA telah berhasil dikembangkan.
2. Penerapan metode *Perona-Malik* pada *inpainting* menghasilkan kualitas hasil proses citra yang sebanding dengan metode *Heat* dan membuat waktu komputasi menjadi lebih lama.
3. Percepatan maksimal terjadi pada citra dengan resolusi paling besar. Semakin besar resolusi citra maka semakin tinggi percepatannya.

V.2. Saran

Beberapa saran dari penulis untuk penelitian bagi *inpainting* citra digital dengan metode *Perona-Malik* secara paralel:

1. Program dapat dioptimalkan dengan mengubah penggunaan *global memory* menjadi *texture memory* atau *shared memory*.
2. Program dapat dikembangkan dengan menambahkan GUI, agar pengoperasian menjadi lebih mudah.

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