

Final Project

The purpose of the project is to develop, implement and test/demonstrate image processing methods implemented on General-Purpose computing on Graphics Processing Units (GPGPU). The important dates to consider for this project are:

- Project proposal due: March 24.
- Project presentation: April 21.
- Submission of written report and source code: April 21.

The project grade will be based on:

- Technical quality, significance, and originality of results (40% of final project grade).
- Written report (50% of final project grade). Final project reports will be posted on the web.

Project Proposal

Each team of students needs to submit a written project proposal in pdf format no later than March 24 (10% of final project grade). It may be submitted to erives@ee.nmt.edu. The proposal must contain:

- Title
- Name(s) and email address(es) of the student(s)
- Description of the goals of the project and the work to be carried out (200-400 words).
- At least 4 references associated with the work to be performed.
- The project must include the usage of a GPU (may use one installed in the DSP lab computers). Do not be overly ambitious in your project goals, and propose an idea or even a proof of concept which can be finished within the time allotted.
- If proposal is not accepted, a revision will be requested by March 31.

Resources

Recommended resources for ideas can be found in the following journals (Tech has an electronic/paper subscription to IEEE journals through IEEEExplore):

- IEEE Transactions on Image Processing.
- IEEE Geoscience and Remote Sensing.
- IEEE Conferences on Image Processing and Computer Vision.