Code: INF-3983 Capstone project, 20 credits

Name: Einar Kristoffersen

# Title: Concurrency in a distributed gigapixel image viewer

The HPDS group in Tromsø has developed a distributed viewer for gigapixel images. The viewer works in the current display wall, but is not flexible enough for future use in the display wall at Tromsø Museum. It also does not work with the Display Cloud infrastructure intended to be used in the museum.

To integrate better with the Display Cloud and provide a more flexible solution, such as on the fly reconfiguration and on the fly switching of images, we expect that new implementation based on a concurrent design will work better.

The main goals of this project are to:

1. Investigate and evaluate concurrent design patterns for a distributed gigapixel image viewer
2. Implement a working viewer based on a chosen concurrent design.
3. Evaluate the design and implementation through experiments on the display wall.

## Deliveries

* Report describing the system including state of the art, the architecture and design of the system, experiments and lessons learned
* Working prototype
* Users guide
* Source code

## Platform

* Tromsø Display Wall laboratory