Circle Fitting

Objective : Given a set of points in 2D find the best fit circle for it.

Notes:

This algorithm is developed in C++ with QT 5.7 framework in Ubantu 16.04 LTS.

Qlabel with custom property is used to display and update the image.

One can select /remove grid points by clicking on it.

If user press G / g , then the application will show a circle in blue color (if possible)

If user press C / c, then the application will show only grid points.

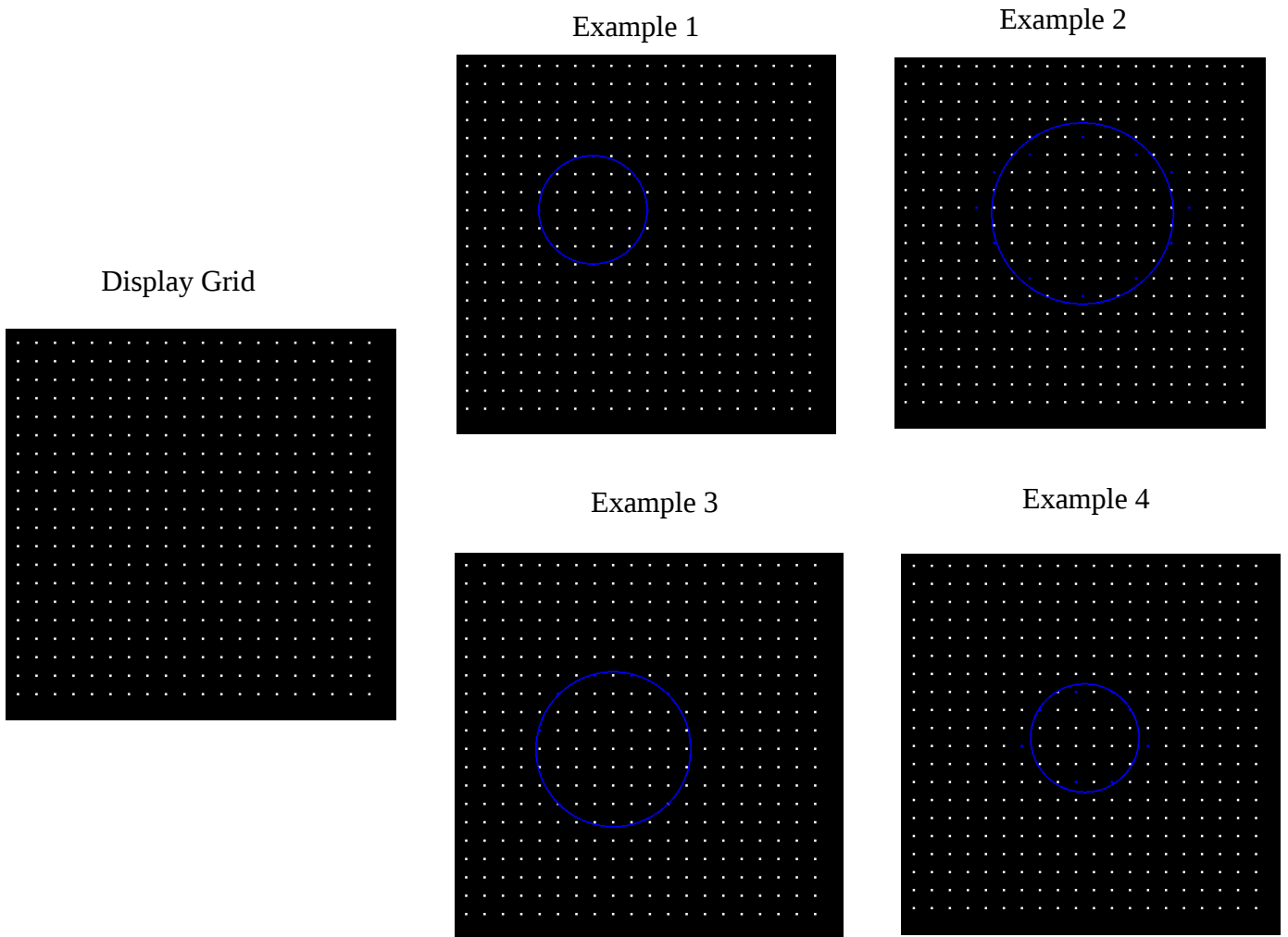## Results :

Display Grid

Example 1

Example 2

Example 3

Example 4

Figure 2. Results of circle fitting algorithm