Urban Big Data Centre (UBDC) Summer Training Programme 2016

‘Introduction to QGIS’

Course instructor: Dr Yeran Sun, UBDC, University of Glasgow

Course duration: 1 day (Wednesday 10th August 2016, 9:30am – 4:30pm, lunch break included)

Course location: Jura teaching lab, Level 4 Annexe, Glasgow University Library

Audience: Social scientists, students, practitioners

Pre-requisite knowledge: No prior knowledge of GIS necessary

Course summary:

GIS software is widely used by a variety of communities in geospatial data analysis. Commercial GIS software, such as ESRI ArcGIS, MapInfo and ENVI are only accessible to users with a payment of a license. Actually, as the most popular open source GIS software, QGIS can replace ESRI ArcGIS in the majority of GIS functions. In this short course, basic knowledge of geospatial data and GIS will be introduced. How to use open source GIS software QGIS to visualize, manage and analyse geospatial data will be presented and practised.

Course content:

Participants will learn knowledge of and gain skills in:

- Spatial data models
- Import geospatial data from ESRI shape files, text (csv) files, Google KML files, etc.
- Import web maps (Google Map, Bing Map, OpenStreetMap, etc)
- Design and produce maps
- Basic geoprocessing and analysis operations (Selection, Buffer, Intersect, Nearest Neighbour analysis, etc.)