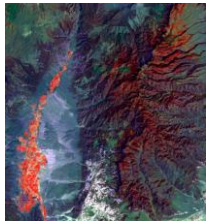# Fall 2022 GEOG311

Geovisualization and GIS

Why Geovisualization?

- This course introduces the concepts underlying Geographic Information Systems (GIS) and its utilization for the input, storage, manipulation, query, display, and analysis of geographical data. Students will be able to:
  - Understand the concepts associated with geovisualization using GIS. You gain working knowledge and practical skills of GIS, through hands-on experiences and apply these concepts to real applications.
  - increase your awareness of GIS science and technology and its potential capabilities for your fields.
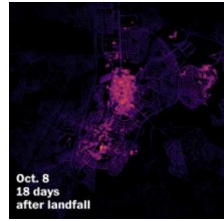 - Develop critical thinking skills and use higher level thinking processes
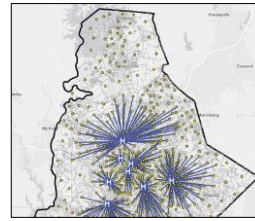
Some examples of Geovisualization
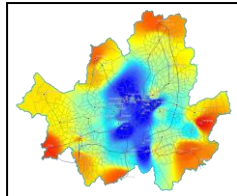
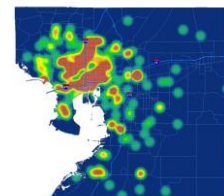**Remote Sensing**   **Disease mapping**   **Web dashboard**   **Business analysis**
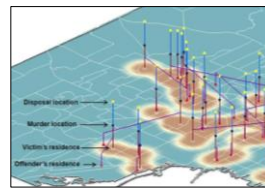
Network analysis   **Cluster analysis**   **Crime analysis**   **Geostatistical analysis**

Class information:

Lecture (W/F) 10:20AM-11:10AM
 Lab (M)
Section 1 : 8:00 AM - 09:55 AM
Section 2: 10:20 AM - 12:15 PM
* You can choose either section 1 or section 2.

What will you learn?

1 What is GIS?

2 Basic concepts in GIS Mapping principles

3 Mapping Principles

4 Vector GIS Mapping

5 Raster GIS Mapping

6 GIS Dashboard Basic scripting Web-Story Mapping

7 Spatial analysis Project development

8 Team projects & Presentation

Instructor:

Dr. Hyun Kim (hkim56@utk.edu)
GTA will be announced in the 1st week.

Prerequisite:

This course does not have any prerequisite.