NEW COURSE OFFERING SPRING 2015
Data Visualization

DESCRIPTION: Introduction to scientific and information visualization. Topics include methods for visualizing scalar fields such as isosurface extraction and volume rendering; algorithms for visualizing vector fields such as line integral convolution and streamline and pathline generation; visual data representation such as parallel coordinates, treemaps, and graph layouts; interactive techniques such as focus+context visualization and coordinated multiple views; and high-performance parallel processing and visualization of large-scale data sets. Students will have the opportunity to learn, implement, and apply visualization techniques through presentations and projects.

CREDITS: 3
DAY/TIME: MW, 12:30-1:45pm
INSTRUCTOR: Chaoli Wang (chaoli.wang@nd.edu)
TEXTBOOK: No textbook is required. We will read a list of visualization papers.
GRADING: Grading is based on paper presentations and class projects.