

Title: User-centric Techniques for Big Data Exploration

Speaker:

Panos K. Chrysanthis, Professor of Computer Science

Director of Advanced Data Management Technologies Lab

University of Pittsburgh

Keynote Abstract:

As the amount of data being generated every day increases exponentially, the term “Big Data” has been adopted to represent the challenge of large-scale data processing. Given the volume of data, the challenge is how to avoid overwhelming the users with irrelevant results. In this talk, we will focus on recent research challenges and opportunities in the emerging area of Data Exploration that aim to guide users to reveal valuable insights from large volumes of data (e.g., financial and scientific databases). We will overview the recent data analysis techniques underlying some of the new data exploration tools, and we will introduce our new framework, called Preferential Diversity (PrefDiv), which is capable of generating results that are not only relevant to users' preference but are also diverse. We will also briefly present our annotation framework, designed for biological data, that enables users to collaboratively explore large data sets.