



The State of Geospatial Big Data

Monday, March 7, 2016

6:00 pm – 7:30 pm (Dinner served at 5:45)

University Club, University of Redlands Main Campus

Seating is limited. Please RSVP by February 26, 2016

by contacting Karen Kraker at 909-748-8769 or gisab@redlands.edu

ABSTRACT

New technologies have caused an exponential increase in the volume and types of data in recent years. It is often said that 90 percent of the world's data today have been created in the last two years alone. This has had a transformational impact on society, governments, and businesses. In light of this ongoing data revolution, Big Data Analytics has emerged as an important area in both industry and academia. At the same time, proliferation of sensors and location sensing devices such as smartphones has created an abundance of ***Geospatial Big Data***. The location component of Geospatial Big Data is often illuminating – it enables us to understand underlying patterns and trends and without location, Big Data datasets often lose their value and are sometimes meaningless.

This presentation will discuss traditional and sometimes non-traditional sources of Geospatial Big Data, and techniques for the collection, management, visualization, and analysis of such data. Why traditional means of analysis are failing for Geo Big Data will be discussed. Cutting-edge research being done by Esri engineers and researchers to understand and analyze vast sets of such data enabled by the power of distributed processing will be presented. As a result, crucial decisions can be made that shape our planet's future. Use cases will illustrate how Geo Big Data and spatial analytics are being leveraged for better management of operations and decision-making at one of the world's largest ports and by taxicab companies in major world cities.

Speaker



Mansour Raad, Senior Software Engineer and Big Data Advocate at ESRI. As part of Esri's development team, Mansour helps users implement Big Data solutions with ArcGIS server. With over 25 years of experience in the Information Technology/GIS field, Mansour is also a Cloudera Certificate Hadoop Developer and HBase Specialist. He is using his command of GIS technologies to design and implement the next-generation Big Data geospatial solutions. Mansour holds a Master's degree in

Aerospace Engineering from Boston University and frequently blogs on Big Data topics and examples of Spatial Big Data implementations.