Time & Location: May 17, 2011 at 2:00 PM in HEC 356
Title: Exploring Techniques for Measurement and Improvement of Data Quality with Application to Determination of the Last Known Position (LKP) in Search and Rescue (SAR) Data

The volume of data is growing rapidly. As organizations around the globe realize the increased importance of their data as being a valuable asset in giving them the competitive edge in today’s fast-paced business world, more attention is being paid to the quality of this data. Advances in the fields of text mining, web mining, predictive analytics, etc., all depend on accurate data. That one cannot effectively mine data, which is dirty or inaccurate, comes as no surprise.

This research explores techniques for the measurement and improvement of data quality in various data domains. One of the datasets which is being analyzed, is the SAR or Search and Rescue dataset. SAR missions are routinely conducted not only in the United States, but all over the world.

One of the challenges with regards to the SAR data is that the collection process is not perfect. Often, the LKP or the Last Known Position is not known or cannot be arrived at. The focus is to fully geocode the LKP, for as many data points as possible, partially geocode the rest of the data points wherever possible, further identify those data points where the LKP cannot be fully geocoded, and to highlight the underlying data quality issues therein.

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Bachelor's of Mechanical Engineering, BS, 1995, V.J.T.I. Mumbai, India
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Approved for distribution by Dr.Kien Hua, Committee Chair, on May 4, 2011.

The public is welcome to attend.