

CS Seminar - Konrad Dramowicz

February 27, 2015 (2:30 pm - 4:30 pm)

Jodrey School of Computer Science

SEMINAR PRESENTATION

Carnegie Hall 113

LOCATION IN DATA ANALYTICS: A MISSING COMPONENT

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Abstract

GIS and data analytics represent synergetic technologies, benefiting from being integrated with other technological solutions. Both can be seen mostly as technologies but they have pretty solid scientific framework and they require special skills related to analytical and spatial thinking. GIS and data analytics have emerged approximately at the same time and for similar reasons. Also their stages of development have been similar. Location, as a core term in geography, business/economy/marketing, geology, ecology and many other areas, is almost a completely missing component in data analytics. In recent years, the term location analytics has been very commonly used in GIS for business.

The presentation will demonstrate how data analytics can benefit from implementing geographical aspects in data preparation, analysis, evaluation, and deployment. There were some attempts to integrate these two technologies but almost all were initiated outside the area of data analytics. The integration of these two disjoint technologies is very slow. Some progress has been made in developing new software solutions and publishing a very few books on geographic data mining or Big Data in geoinformatics.

The Centre of Geographic Sciences in Lawrencetown is an institution where GIS program was in place in the middle of 1980s and the Data Mining course has been offered there since 2000. Examples of major research projects in GIS for Business completed by COGS students, where data analytics was applied (including using OLAP cubes, predictive analytics, classification and rule discovery will be presented.

About the Presenter

Dr. Konrad Dramowicz obtained his PhD in geography in 1973 and his GIS diploma in 1989. He is an author of numerous publications (including books) and frequent presenter of papers and workshops at national and international conferences. His professional interest includes GIS, data mining, spatial analysis, economic and human geography, philosophy and methodology of science. He has worked as a faculty at the Centre of Geographic Sciences (COGS) in Lawrencetown for the last 26 years

Everyone is welcome to attend

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