Space, Time and Person-based Geographic Information Science in a Dynamic, Mobile and Connected World

Our world is much more complex than the static snapshot representations in conventional geographic information systems (GIS). Almost all entities in our world change over time and many of them are mobile and dynamic. In addition, human activities and interactions enabled by modern information and communication technologies (ICT) such as the Internet and mobile phones are increasingly taking place in virtual space. If we want to represent, analyze and visualize human activities and interactions in today’s dynamic, mobile and connected world, what are required to move beyond conventional GIS to develop a Space, Time and Person-based GIS? This presentation discusses the limitations of conventional GIS and also uses a prototype space-time GIS to illustrate efforts of integrating space, time, and persons in a GIS environment.

FEBRUARY 22
3:00–4:00PM
DAVENPORT HALL ROOM 219

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