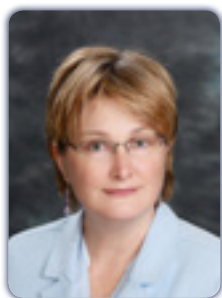2nd International Convention on

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Beyond GIS in the era of the Internet of Things

Society has a very ambitious vision of large scale, digital and connected cities where anything can theoretically become part of the Internet of Things, allowing sensing, connectivity and communication to take place without human intervention. This increase in the ability to create, transmit and analyze geospatial data raises new issues about whether the complexity of the data can best be exploited in GIS or there is a need to go beyond GIS. Intelligence functions will be required in the future so that emerging technologies such as the Internet of Things can best improve the efficiency and competitiveness of the environment in which cities operate. This paper explores the main issues by advances in Internet of Things in solving the key problems of cities that require a greater understanding of how citizens can effectively interact with the Internet of Things and what kind of big data analytics is crucial to generate intelligence that entails the creation of any value and appreciated services for citizens. We are in the midst of an exciting paradigm shift in which the future of GIS may not be a GIS.

Biography

Monica Wachowicz is the Cisco Innovation Chair in Big Data Analytics and the NSERC/Cisco Industrial Research Chair in Real-Time Mobility Analytics at the University of New Brunswick, Canada. She is also the Director of the People in Motion Laboratory, a center of expertise in the application of Internet of Things (IoT) to smart cities. She is a Founding Member of the IEEE Big Data Initiative and the *International Journal of Big Data Intelligence* and is also a joint Editor-in-Chief of the *Cartographica Journal*. Her pioneering work in multidisciplinary teams from government, industry and research organizations is fostering the next generation of data scientists for geospatial innovation.

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