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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

Visual Exploration of Changes in Passenger Flows and Tweets on Mega-City Metro Network

ABSTRACT

Transportation systems in mega-cities are often affected by various kinds of events such as natural disasters, accidents, and public gatherings. Highly dense and complicated networks in the transportation systems propagate confusion in the network because they offer various possible transfer routes to passengers. Visualization is one of the most important techniques for examining such cascades of unusual situations in the huge networks. This paper proposes visual integration of traffic analysis and social media analysis using two forms of big data: smart card data on the Tokyo Metro and social media data on Twitter. Our system provides multiple coordinated views to visually, intuitively, and simultaneously explore changes in passengers' behavior and abnormal situations extracted from smart card data and situational explanations from real voices of passengers such as complaints about services extracted from social media data. We demonstrate the possibilities and usefulness of our novel visualization environment using a series of real data case studies and domain experts' feedbacks about various kinds of events.

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EXISTING SYSTEM

PUBLIC transportation systems, such as railways and metros, in mega-cities are always required to increase their resilience to extreme situations caused by various events. To increase the resilience of the systems, lessons must be learned from past events to understand how the systems are affected by changes in passengers' behaviors. Integration of smart card data and social media data enables us to replay past events and to discover abnormal situations of transportation systems, propagations of abnormalities over transportation networks, and passengers' complaints or dissatisfaction about which even train system operators and station staff do not know.

DISADVANTAGES

- Transportation systems in mega-cities are often affected by various kinds of events such as natural disasters, accidents, and public gatherings.
- Highly dense and complicated networks in the transportation systems propagate confusion in the network because they offer various possible transfer routes to passengers.

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PROPOSED SYSTEM

In proposed a novel visual fusion environment to explore changes in flows of passengers on the Tokyo Metro and their causes and effects by using more than four years' worth of data extracted from the smart card system and Twitter. Our novel approach enables us to extract and visualize passenger flows on a complicated metro network from large scale data from the smart card system and unusual phenomena and their propagation on a spatio-temporal space. Moreover, we integrated two forms of big-data (data from the smart card system and Twitter) into a visual exploration system to explore causes and/or effects of unusual phenomena.

ADVANTAGES

- Multiple coordinated views to visually, intuitively, and simultaneously explore changes in passengers' behavior and abnormal situations Extracted from smart card data.
- Real data and domain experts' feedbacks strongly highlight the effectiveness of our system.

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Color.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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