

4-15-2016

City360: Visualizing Multimodal City Events for Decision Support

Vaikunth Sridharan

Wright State University - Main Campus, sridharan.7@wright.edu

Tanvi Banerjee

Wright State University - Main Campus, tanvi.banerjee@wright.edu

Pramod Anantharam

Wright State University - Main Campus

Archana Sheshadri

Wright State University - Main Campus

RoopTeja Muppalla

Wright State University - Main Campus, muppalla.4@wright.edu

See next page for additional authors

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Repository Citation

Sridharan , V., Banerjee , T., Anantharam , P., Sheshadri , A., Muppalla , R., Sheth , A. P., & Thirunarayan , K. (2016). *City360: Visualizing Multimodal City Events for Decision Support*. .

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Authors

Vaikunth Sridharan, Tanvi Banerjee, Pramod Anantharam, Archana Sheshadri, RoopTeja Muppalla, Amit P. Sheth, and Krishnaprasad Thirunarayan

City360: Visualizing Multimodal City Events for Decision Support

Vaikunth Sridharan, Tanvi Banerjee, Pramod Anantharam, Archana Sheshadri, RoopTeja Muppalla, Amit Sheth, and Krishnaprasad Thirunarayan
Kno.e.sis, Wright State University, Dayton, OH, USA
{vaikunth,tanvi,pramod,archana,amit,tkprasad}@knoesis.org

Abstract Cities are increasingly outfitted with sensors for monitoring various conditions such as traffic, weather, air quality, and infrastructure related issues. Such well outfitted cities are generating massive amounts of multimodal data leading to daunting challenges in assimilating, visualizing, and making sense of this data by city authorities and citizens. We propose City360 to address these challenges and provide decision support to city authorities and citizens. We demonstrate the utility of our system through concrete use cases for San Francisco Bay area that utilize heterogeneous data from various open city data sources.

Keywords Decision support, multimodal data visualization, spatiotemporal querying, city infrastructure events