UNDERSTANDING URBAN DYNAMICS WITH DIFFERENTIAL TRACE ANALYSIS

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How Londoners move within the city? Is there any recognizable spatio-temporal pattern in their mobility structure? What these patterns tell us about the underlying behavior of the Londoners and their relationship with the city? Do the functional faces of different parts of the city influence Londoners mobility, and furthermore, how these faces evolve through out the day? Answers to such questions have implications ranging from urban infrastructure improvement to future urban planning to citizen life enhancement. Drawing upon a case study on London city, in this talk I will offer a reflection on how the combination of public transit traces and crowd-sourced geographical data can be used effectively to model the behavior of urban citizens and the city itself.

Fahim Kawsar leads the Internet of Things Research group at Bell Labs. His current work focuses on building user centered systems for offering network Intelligence driven opportunistic interaction experience in a connected space. Fahim's work has been published widely in international books and journals, presented at conferences across the world and has had projects commissioned. Fahim has a PhD in Computer Science from Waseda University, has worked before at Nokia Research, and Lancaster University. His work and publications can be viewed at http://www.fahim-kawsar.net.