Exploratory Data Visualization for Smart Systems

Abstract:
Computers, internet and web give society access to an incredible amount of data, which made benefitting from it precisely more complex. Data visualization is helpful; it adjusts the normal people visual thinking to gain from data sets. Originally data figures are provided to help explain ideas and provide evidence to influence a decision. We in this presentation will give a new trend of data visualization, trying to link illogical data inputs making them source of judgments in interactive ways. This current interaction method of data visualization is moving the purpose from pure explanatory to open exploratory resulting in new fast thinking direction very helpful for smart systems decision making. The presentation will introduce this technique proofing the concept with some real examples.

Presenter:

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About the presenter:
Prof. Adnan Abdul-Aziz Gutub is currently working as the Vice Dean of the Custodian of the Two Holy Mosques Institute of the Hajj & Omrah Research, Known publicly as Hajj Research Institute (HRI), within Umm Al Qura University (UQU), Makkah, Saudi Arabia. Adnan's research experience involved cryptography, steganography and computer security applications & VLSI architectures. His research interest in computing and information technology have been broaden to also relate to smart crowd management and intelligent transportation engineering systems because of the involvement in Hajj and Omrah Research at UQU - Makkah. He is currently leading the research at HRI to benefit from data visualization, analysis and interaction for different real applications.
Administratively, Prof. Adnan Gutub filled many executive and managerial academic positions starting at King Fahd University of Petroleum & Minerals (KFUPM) then UQU. At KFUPM - Dhahran, he had the experience of chairing the Computer Engineering department (COE) for five years until moving to Makkah in 2010. Then, at UQU - Makkah, Adnan Chaired the Information Systems Department at the College of Computer & Information Systems followed by his leadership of the Center of Research Excellence in Hajj and Omrah (HajjCoRE) serving as HajjCoRE director for around 3-years until the end of 2013. Then, he was assigned his current position as the Vice Dean of HRI, i.e. the Custodian of the Two Holy Mosques Institute of the Hajj & Omrah Research.