

Urban Intelligence: Connected City and Life with Advanced Technologies

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Abstract

As the global population continues to grow and an increasing number of people move to major cities worldwide. United Nations cited that currently 50% of the people living in cities and 57% would be going there in 2025. The analysis of the urban data has drawn significant interests such as disaster relief, regional planning, military intelligence, and urban expansion tracking in developing countries. There is a pressing need for new approaches to derive useful information from data generated by a diversity of sources in urban environment information and provide analytical tools to support the smart city planning, design, and management. This talk focuses on new technologies that help us understand how we efficiently process, integrate, and analyze big, heterogeneous data generated by sensors, devices, vehicles, as well as human..

SHORT Biography



Xiaohui Yuan received a B.S. degree in Electrical Engineering from the Hefei University of Technology, China in 1996 and a Ph.D. degree in Computer Science from the Tulane University, U.S.A. in 2004. He is currently an Associate Professor with tenure at the University of North Texas. His research interests include computer vision, data mining, machine learning, and artificial intelligence. He served as principal investigators in projects supported by Air Force Lab, National Science Foundation, Texas Advanced Research Program, Oak Ridge Associated Universities, and UNT. His research findings are reported in over 140 peer-reviewed papers. Dr. Yuan is a recipient of Ralph E. Powe Junior Faculty Enhancement award in 2008 and the Air Force Summer Faculty Fellowship in 2011, 2012, and 2013. He also received two research awards and a teaching award from UNT in 2007, 2008, and 2012, respectively. He served as editor-in-chief, guest editors, and on the editorial board of several international journals and served as session chairs in many conferences, as well as a panel reviewer for funding agencies including NSF, NASA, NIH, and Louisiana Board of Regent's Research Competitiveness program. He is a senior member of IEEE..