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Enabling distributed networks for connected vehicles

Since last few years, Smart City and related projects are evolving rapidly so users are shifting from local server to community data centers. Therefore, smart city markets are desperately in need of solutions that can improve safety of people, security of vehicles and can reduce the cost of ownership. This talk focuses on the convergence of the distributed networks and automotive technology towards the visualization pattern and smart city services. However, Internet of Vehicle (IoV) is an emerging concept of computing technology which is fast emerging as a successful extension to existing Internet in an embedded automotive sensor device in recent years. Researchers have visualized interconnections of billions of smart embedded devices to change the way of life. Therefore, several IoV and M-2-M initiatives are going on for the development of sensing technologies for the automotive technologies especially in machine-to-real-world and machine-to-humans. The resultant of the IoV objects are utilized for embedded technologies to monitor, control and for comfortable and secure life of driver and vehicle. This talk mainly focuses on the following questions: What are the most appropriate distributed architectures to support smart city services?; What are the most suitable ways to the management of Internet of Vehicles Applications? and; What is the most appropriate way to improve driver safety and security services? Finally, I will present test-bed and simulation scenarios for the smart city scenario and connected vehicle services.

Biography

Dhananjay Singh is the Director of ReSENSE Lab, and Chair in the Division of Global IT at Hankuk University of Foreign Studies (HUFS) South Korea. He received his BTech degree in Computer Science and Engineering from VBS Purvanchal University, Jaunpur, India in 2003 and MTech degree in Wireless Communication and Computing from Indian Institute of Information Technology (IIIT), Allahabad, India. He received his PhD degree in Ubiquitous IT from Dongseo University (DSU), Busan, South Korea. He is working as a Post Doctor Researcher and Senior Member of Engineering Staff of Future Internet Architecture at National Institute of Mathematical Sciences (NIMS), and Electronics and Telecommunication Research Institute (ETRI), Daejeon, South Korea. He is a Senior Member of IEEE and ACM Society. He has won best paper award for three times from IEEE conferences and two times fellowship award from APAN meeting for Singapore and Manila. He has published 100+ refereed scientific papers, served 100+ TPC membership and delivered 50+ invited talks at the major IEEE conferences/workshop. His research interests focus on the design, analysis and implementation of algorithms/protocols for large-scale data set to solve real-world problems.

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