Title :   IoT+AI: Opportunities and Explorations

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Abstract:

The Internet of Things (IoT) can enable the interconnection and integration of the physical word and the cyber space, and has been widely considered as the kernel technology for sensing the urban environments and providing smart services further. At the same time, the rapid development of Artificial Intelligence (AI) brings many opportunities to IoT. In this talk, we first introduce the challenges of intelligent sensing networks for smart urban. Combing AI theory, we discuss some explorations and recent research progresses on sensing, networking and computing, and service in the IoT environment. Finally, we outline the prospects of IoT development.

 Biography:

Dr. Huadong Ma is a Chang Jiang Scholar Professor, School of Computer Science, and Executive Dean of Institute of Networking Technology, Beijing University of Posts and Telecommunications (BUPT), China. He is also Director of Beijing Key Lab of Intelligent Telecommunications Software and Multimedia, BUPT. He is Chief Scientist of the project "Basic Research on the Architecture of Internet of Things" supported by the National 973 Program of China from 2010 to 2013. He received his PhD degree in Computer Science from the Institute of Computing Technology, Chinese Academy of Science in 1995. From 1999 to 2000, he held a visiting position in the EECS Department, The University of Michigan, Ann Arbor, USA. His current research focuses on sensor networks and Internet of things, multimedia computing, and he has published over 200 papers in journals (such as ACM/IEEE Transactions) or Conferences (such as IEEE INFOCOM, ACM MM) and 4 books on these fields. As a co-author, he got the best paper award in IEEE ICPADS2010 and the best student paper award in IEEE ICME2016. He was awarded National Funds for Distinguished Young Scientists in 2009, CCF Natural Science Award and the Natural Science Award of the Ministry of Education, China in 2017. He is an Editorial Board Member of the IEEE Transactions on Multimedia, IEEE Internet of Things Journal, ACM Transactions on Internet of Things, and Springer Multimedia Tools and Applications. He serves for Chair of ACM SIGMOBILE China.