



Department of
Computer Science

香港城市大學
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COMPUTER SCIENCE COLLOQUIUM

IoT networking: from isolation to collaboration

SPEAKER Mr Zhimeng YIN

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TIME 2:00 PM - 2:30 PM

VENUE Online via Zoom

ABSTRACT

As a foundation of the Smart Cities Initiative, IoT envisions improving our everyday life through pervasive objects. Despite their success, heterogeneous IoT devices are infeasible to communicate with each other, leading to isolated networks. With the explosive growth of IoT in the emerging 5G era, the problem of isolation is becoming more and more crucial, limiting the performance of many critical IoT applications. In this talk, I will discuss how to enable collaboration among isolated IoT. Specifically, I will focus on two innovations: (1) how we enable direct communication for bridging heterogeneous and incompatible IoT without hardware/firmware modification; and (2) how we can achieve collaborative services based on direct communication for improving IoT performance.

BIOGRAPHY

Zhimeng Yin is currently a Ph.D. candidate with the Department of Computer Science and Engineering at the University of Minnesota, Twin Cities. His research interests are on the Internet of Things (IoT), including communication, networking, embedded systems, mobile computing, and security.

All are welcome!



In case of questions, please contact Prof Xiaohua Jia at csjia@cityu.edu.hk, or visit the CS Departmental Seminar Web at <https://www.cs.cityu.edu.hk/news/seminars/>.