Internet of Things and Cloud Computing for Future Internet

Han-Chieh Chao

President of National Ilan University

Director of the Computer Center for Ministry of Education (2008-2010)

Joint appointed Full Professor of the Department of Electronic Engineering and Institute of
Computer Science & Information Engineering, National Ilan University, I-Lan, Taiwan, R.O.C
hcc@niu.edu.tw

In recent years, Internet of Things (IoT) and Cloud Computing are the hottest issues of Future Internet. The IoT is the most important concept of Future Internet for providing a common global IT Platform to combine seamless networks and networked things. Cloud Computing provides backend solution for processing huge data streams and computations while facing the challenges of everything will be connected with seamless networks in the future. However, there is a lack of common fabric for integrating IoT and Cloud. In telecommunications, the IMS (IP Multimedia Subsystem) based on the All-IP and Open Services Architecture has been regarded as the trend for Next Generation Network (NGN). We believe that the IMS communication platform is the most suitable fabric for integrating IoT and Cloud. In this study, we will provide the discussion of open challenges and possible solutions for Future Internet.