



**IEEE Consumer Communications & Networking Conference (CCNC)
Held in conjunction with the International Consumer Electronics Show,
Las Vegas, NV, USA
January 09-12, 2016**

Call for Papers for Content Centric Internet of Things (CCIoT)

Scope and Motivation:

Content-Centric Networking (CCN) and Named Data Networking (NDN) have recently emerged as a promising Future Internet architecture that aims to cope with the increasing demand for highly scalable and efficient information dissemination. Moving away from the Internet's legacy host-to-host communication model, CCN/NDN promises a new host-to-data communication model, by leveraging named data, name-based routing and in-network storage for caching. At the same time, the rise of the Internet of Things (IoT), with its rich set of challenges and requirements placed upon the current Internet, provide an interesting ground for showcasing the contribution and performance of CCN mechanisms.

This special session calls for recent research, practical experiences, and development lessons on the intersection of the paradigms of CCN and IoT. The objective is to promote the integration of Content Centric Networking and Internet of Things by addressing the unique problems in IoT, such as mobility, interference of wireless channel, limitation of storage and battery, security and privacy. Novel applications, practical experience and solutions on deploying CCN over IoT are also welcome.

Main Topics of Interest:

The Special Session on Content Centric Internet of Things (CCIoT) seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Content-centric network architecture for IoT
- RFID-based naming strategy
- Information publish/subscribe mechanism for data collection

- Routing in wireless CCN
- Resource management such as power, computing, storage, bandwidth, and user interface
- Context-aware networking for smart home, health care, transportation, etc.
- Novel application, prototype or solution in consumer networks with CCN
- Security, privacy, and trust in CCN over IoT
- Contextual communication in IoT applications

We encourage submissions of high-quality technical papers reporting original research that has not been previously published, and is not currently submitted for consideration elsewhere. To ensure high quality of the contributions, all papers submitted to this special session will be reviewed using the same procedure and criteria as regular papers (please refer to the main conference CFP when preparing your submissions). All paper submissions are handled through EDAS, and follow the technical program submission and review schedule. Papers accepted for this special session are included in the conference proceedings as part of the technical track and published in the conference proceedings including IEEE Xplore. At least one author for each accepted paper must register for the conference and present the paper during the Special Session.

Session Co-Chairs:

Haiyong Xie, USTC & CAEIT Innovation Center

Cedric Westphal, Futurewei Technologies & UCSC