

Call for papers

IEEE MASS 2015 Workshop on Content-Centric Networks

Dallas, TX, USA,

19th October 2015

<http://www.eng.auburn.edu/~szm0001/ccn2015/index.html>

Scope

With the exponential growth of content in recent years (e.g., videos) and the availability of the same content at multiple locations (e.g., same video being hosted at Youtube, Dailymotion), users are interested in fetching a particular content and not where that content is hosted. Also, the ever-increasing numbers of mobile devices that lack fixed addresses call for a more flexible network architecture that directly incorporates in-network caching, mobility and multipath routing, to ease congestion in core networks and deliver content efficiently. By treating content as first-class citizen, Content-Centric Networking (CCN) aims to evolve the current Internet from a host-to-host communication based architecture to a content-oriented one where named objects are retrieved in a reliable, secure and efficient manner. CCN has been under active exploration over the past few years, resulting in both clean-slate and overlay architectures and solutions. This workshop will provide researchers and practitioners to meet and discuss the latest developments in this field. The outcomes of this workshop include 1) investigating and understanding some of the challenges in CCN; 2) fostering collaboration among researchers interested in CCN.

In recent years, rapid progress has been made in CCN; multiple initial architectural designs sharing common goals of in-network caching, mobility support and multipath routing have been proposed and prototypes have been implemented. Challenges related to caching and routing of content has received attention. Research areas focusing on what content to cache, how to route for content have been explored, but areas such as security, privacy and economic models for CCN have received limited attention.

The goal of this workshop is to bring together researchers from academia and industry and investigate the architectural issues and challenges in CCN. We invite submissions describing new research contributions including but not limited to the following topics.

- Content-oriented routing protocols
- Content naming
- Scalability issues in CCN
- CCN Architecture design and evaluation
- Security issues in CCN
- Privacy in CCN
- Content centric wireless networks
- Mobility management
- Evaluation of in-network caching techniques
- Limits and limitations of CCN architectures
- Economics and business models

- CCN specific transport protocols
- Specific implementations of CCN architectures

Important Dates

=====

Paper submission: July 1, 2015
Paper Acceptance: July. 27, 2015
Camera-ready paper: Aug 1, 2015

Submission Guidelines

=====

Please follow the author instructions at
<http://www.eng.auburn.edu/~szm0001/ccn2015/index.html>

All workshop papers will be included in the IEEE Proceedings.

Steering Committee

=====

Jim Kurose, University of Massachusetts, Amherst, USA
<http://www-net.cs.umass.edu/personnel/kurose.html>

Workshop Organizers

=====

Anand Seetharam
School of Computing and Design
California State University Monterey Bay, USA
Email: aseetharam@csumb.edu
<http://itcdland.csumb.edu/~aseetharam/index.htm>

Shiwen Mao

Department of Electrical and Computer Engineering
Auburn University, USA
Email: smao@ieee.org
<http://www.eng.auburn.edu/~szm0001/>