

Call for Papers: IEEE workshop on Content Delivery in Heterogeneous Networks (CDHetNet) in conjunction with IEEE Wimob 2015

According to the traffic forecasting report of CISCO, Internet traffic will be increased tenfold in the next ten years and annual global IP traffic will surpass the Zettabyte (1000 Exabytes) threshold in 2016. Half of the Internet traffic will be carried over Content Delivery Networks (CDNs) by 2018, especially the traffic of video streaming, video gaming, video conferences and multimedia traffic over mobile devices like tablets, smart phones and machine-to-machine (M2M) modules.

As a result, efficient content delivery technologies are crucial for heterogeneous networks, e.g., 4/5G cellular networks, LTE-Advanced networks, Telco-CDNs, mobile CDNs, Content Centric Networks (CCNs), optical networks, Software-Defined Networks (SDN), Wireless Sensor Networks (WSNs), Vehicular Ad-hoc Networks (VANETs), converged wireless and wired networks and etc.

From the point of view of content owners, it is Important to use the cutting-edge content distribution solutions to improve the quality of experience for end users, increase ad impressions, improve conversion rates, and strengthen customer loyalty. For network operators, developing efficient content delivery techniques can reduce subscriber churn, facilitate the development of value-added services, reduce traffic on the core network, and enable operators to sell CDN services to enterprises and third-party content owners.

Description and Topics of CDHetNet

The workshop **CDHetNet** invites paper submissions to explore recent advances and disseminate the state-of-the-art research on efficient content delivery technologies in heterogeneous networks, including all levels of designing, developing and applications.

It will also identify potential research directions that will lead to innovations within this area. We expect the papers of this workshop serve as valuable references for a large audience from both academia and industry. Original, unpublished contributions and survey/tutorial types of articles will be considered.

The topics of interest for the workshop include, but are not limited to:

- Video streaming in Content Delivery Networks, Telco-CDNs, mobile CDNs
- Dynamic adaptive streaming over HTTP
- Content delivery for smart cities (multimedia-based tour recommendation for museum visit, city tourism)
- Content delivery for Massive Multiplayer Online Games (MOMOG) and MOOC
- Content delivery for 3D multimedia content
- Content delivery for e-health, e-commerce, e-learning, and online virtual conferences
- Content delivery in Content Centric Networks (CCNs)
- SDN applications for content delivery in heterogeneous network
- SDN based architectures from content delivery
- Software-Defined Content delivery in SDNs
- Content delivery in cellular networks, LTE networks
- Content delivery in Vehicular Ad-Hoc Networks (Safety applications and Comfort applications)
- Content delivery in Wireless Sensor Networks
- Content delivery for Camera-Based Networks
- Content delivery in Passive Optical Networks (PON)
- Content Delivery in Optical Networks
- Resilient content delivery in optical clouds
- Optimization algorithms for content delivery
- Security issues for content delivery
- Quality of Experience (QoE) Enhanced content delivery
- Network reconfiguration and traffic engineering for content delivery
- Network control and management for efficient content delivery
- Digital signal processing and multimedia coding technologies for efficient content delivery
- Energy-efficient/green content delivery
- New network architecture design for content delivery system
- European project survey about content delivery technologies

Schedule

Submission Deadline: June 30, 2015

Acceptance Notification: July 31, 2015

Submission

EDAS submission site - <http://edas.info/newPaper.php?c=20791>

Workshop co-chairs

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