

Call for Papers

2nd DST UKIERI International Workshop on “Wireless Connectivity Through Edge Technology” - jointly with IEEE ANTS

16th – 19th December 2018

Scope: Emerging technology in wireless cellular networks has resulted in demands for a variety of applications that need to be supported in the future communication systems. In this direction, future generations of wireless systems should play an important role in bringing these technologies to a reality. Various possibilities of exploiting available resources to enhance the user experience have been explored, especially through various edge (or last mile) technologies such as caching, data offloading, edge computing etc., to name a few.

Caching at the edge node of a wireless network, such as Base Stations (BSs), WiFi hot spots, and user equipment are being investigated to reduce the backhaul congestion, and enhance user experience. Various caching mechanisms, both pro-active and passive, for efficient delivery of content to the end user have been explored under different models on the network. Distributed content network has resulted in the possibility of exploring different ways of storing and delivery of the contents. Coded storage and multicast delivery of content are some of the key emerging trends in this direction. Other line of attack to improve connectivity is by allowing cellular operators to offload their traffic onto small-cell network such as WiFi. This proposal is popularly referred to as mobile data-offloading, and in recent times there has been enormous interest on this topic from all quarters, including policy makers to personnel in industry and academia. Mobile data-offloading can be technically achieved by implicit user allocation or by explicitly sharing the WiFi spectrum. In either case, innovative protocols and mechanisms are required to facilitate efficient coexistence of the cellular and WiFi technologies.

The 2nd **Workshop on Wireless Connectivity Through Edge Technology** is a half-day workshop that will take place during IEEE ANTS 2018 in Indore City, from December 16, 2018. The workshop aims to bring researchers/experts around the world together to explore and discuss the state-of-the-art research in the areas mentioned above. Topics of interest include, but not limited to:

- *Caching at the edge*
- *Data offloading in cellular networks*
- *Distributed and cooperative storage, and edge computing*
- *Security and privacy issues*
- *Performance analysis of edge networks*
- *Machine learning applications in caching and data offloading*
- *Prototyping, test-buds and field trials*

Submission Guideline: <http://ants2018.ieee-comsoc-ants.org/about/workshops/>

Submission Link: <https://edas.info/newPaper.php?c=24727&track=93156>

Note: All papers presented at the workshop will be submitted to IEEEExplore for publication.

Important Dates:

Full Paper Submission: **20th September 2018**

Acceptance Notification: 20th October 2018

Final Paper Submission: 1st November 2018

Workshop Date:

Workshop Organizers & TCP Chairs:

Vimal Bhatia (Indian Institute of Technology Indore)

B. N. Bharath (Indian Institute of Technology Dharwad)

K. P. Naveen (Indian Institute of Technology Tirupati)

J. Harshan (Indian Institute of Technology Delhi)

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