

OpenWireless 2020

The 1st International Workshop on
Open Software Defined Wireless Networks

Collocated with

MobiSys 2020

The 18th ACM International Conference on
Mobile Systems, Applications, and Services

June 19, 2020
Toronto, Canada



Call for Papers

As we embark on the 5G era, wireless networks will be even more essential in connecting billions of users and things. In this new era, democratization of spectrum resources and wireless access will enable rapid innovation by bringing up continuous development, integration, and deployment to transform the network planning and deployment processes that historically took years. Today, only about half of the world's population has access to the Internet according to the GSMA and Internet Exclusivity Index. To provide connectivity to the other half, we need to address availability, cost, and relevance. Wireless networks are important as it can provide flexible availability at low cost. However, today the telecommunication industry is dominated by proprietary solutions, which limits innovation, puts a barrier to participation, and drives costs.

We see two divergent R&D ecosystems in the academia and the industry that can address these issues. In the academic world, wireless research testbeds are being built with an emphasis on pushing the next generation applications and the network infrastructure needed for such applications. In the industry, efforts such as TIP, Magma, ORAN, OMEC, etc., are trying to break away from the traditional Telco infrastructures and accelerate deployment, feature development and customization of networks via functional disaggregation (hardware and software), flexible integration, control and user plane separation, and automation. We believe that an open source ecosystem can harmonize the two ecosystems and allow greater participation. OpenWireless 2020 workshop is geared towards bringing these two ecosystems together for fostering open collaboration and partnership between academia and industry.

We solicit paper submissions on new wireless platforms and network architectures that enable open innovation, service customization, fast network evolution and automation. Software defined wireless networks, self-evolving networks, wireless research testbeds, private networks, dynamic spectrum sharing and brokering, network virtualization and slicing, industry 4.0 applications, federated and highly distributed wireless access, block-chains for AAA (authorization, authentication and accounting) and zero-trust networking are among the areas of interest. Submissions that report experiences of users and developers for early as well as mature stage deployments are also strongly encouraged, particularly those that improve Internet access to underserved communities.

The papers are limited to 5 pages including references. The formatting should adhere to the formatting requirements of ACM MobiSys submissions. The papers should be submitted to <https://openwireless2020.eecs.umich.edu/submissions/>. The important deadlines are listed below.

Important Deadlines:

Workshop paper submission deadline:	March 20, 2020
Author Notification:	April 20, 2020
Camera-ready deadline:	May 1st, 2020
Workshop date:	June 19th, 2020