‖‖‖ ns-3 NETWORK SIMULATOR

Annual Meeting

Call for Presentations

Friday, June 17   **Workshop on Wireless Network Performance Evaluation**

In conjunction with the annual meeting of the ns-3 Consortium and the Eighth Annual Workshop on ns-3 (WNS3), you are invited to participate in a 1-day workshop on Wireless Network Performance Evaluation (WNPE) that looks to explore broadly the state-of-the-art with respect to hardware and software tools that support studies of heterogeneous networking scenarios, with a current emphasis on coexistence.

The structure of the workshop will be as follows:

1. A set of invited presentations (overview, present status, and future directions) from a few key stakeholders

2. A set of 30–minute presentations from Open Call, representing current work related to any aspect of WNPE using hardware/software system methodologies

3. A moderated panel discussion based on Lessons Learned and Way Forward (the notes will be compiled into a short report)

Open Call

We invite you to submit by **April 1**

➤ An extended abstract/summary of your presentation. This should comprise:

- pg. 1: Title, authors/affiliations/contact info + description of any problem relating to WNPE topic and/or results from ongoing work in your group/organization.

- pg. 2: A brief biography of the presenter/lead author and a short background of group/lab's prior relevant experience/interest in WNPE topics.

Email to: tomhend@uw.edu, sroy@uw.edu

Notifications will be sent by April 15 after an administrative review by the WNPE Organizers.

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Friday, June 17 — Workshop on Wireless Network Performance Evaluation

Workshop goals

Simulation is a widely used tool for research into emerging wireless networking standards and the coexistence between competing technologies on shared spectrum (e.g. 3GPP Release 13 LAA, IEEE 802.11ax High Efficiency WLAN). At the same time, significant NSF and European Commission investment continues on wireless testbeds, and hardware-based research platforms such as BladeRF, USRP, and OpenAirInterface continue to proliferate. We therefore see various use cases of simulations, hardware research platforms, and testbeds in practice, all with respective strengths and limitations. It is natural for researchers to become invested in one particular toolchain, but it is more likely that research programs will need to adeptly select from and combine different approaches and methods depending on the research question and system scenario. For example, there is a significant upsurge of interest globally regarding feasible system approaches to **spectrum sharing** between multiple networking technologies (notably LTE and WiFi) as well between civilian and military services (e.g. radar, navigation, and other Federal installations and various civilian communication networks). Studying such complex interactions and building reliable systems (even on testbed scale) to explore and solve various co-existence issues from a multiplicity of approaches involving WNPE tools is an open and timely problem of considerable importance.

We therefore invite researchers interested broadly in WNPE-related topics and specifically in co-existence to this workshop — to present ideas, discuss and learn from collective experience, and identify future requirements.

Examples of Topics of interest

- Case studies, best practices, tools for Wireless Network Performance Evaluation
- Recent/preliminary research results (simulation, hardware testbed, co-simulation/hw emulation)
- Identify gaps and future requirements for study of Heterogeneous Wireless Networking & Coexistence.
- Update on various open source wireless simulation software efforts relating to WNPE, highlight way forward/next steps

Outcome

A brief report highlighting key recommendations will be produced based on discussions. A video archive of the workshop also will be made available.

Registration

To register to attend this workshop and other meeting events, please visit:

https://www.nsnam.org/overview/wns3/wns3-2016/registration/