2022-06-15 - Virtual: Thoth Action Plan for Network Intelligence Collaborative Innovation

> ⓘ **About Plenary Sessions**
>
> **A Plenary session implies that all attendees are expected to attend due to either their relevance or importance to LFN as a whole.**
> This usually means that no other sessions will be running in parallel. Topics may be reclassified as "General Interest" by the Program Committee to run as a parallel session if deemed appropriate.

Topic Leader(s)

- Lei Huang
- Yan Yang
- Sridhar Rao
- Ranny Haiby
- Beth Cohen
- @Zhipeng Huang
- Scot Steele

Topic Description

1h

Moderator: Sridhar Rao

Panelist: Lei Huang, Yan Yang, Sridhar Rao, Beth Cohen, Ranny Haiby, Zhipeng Huang, Scot Steele

Share and discuss around Thoth's new project - Network Intelligent Collaborative Innovation Project.

Topic Overview

In order to promote ecological construction of network intelligence, LFN Anuket community-Thoth kick-off a new project named Network Intelligent Collaborative Innovation Project this year, we will share and discuss this new project in the topic. Overall, the topic will be divided into two parts: speech sharing and panel discussion-
1. Speech Sharing: Introduce Thoth's work plan in this year, including the Network Intelligent Collaborative Innovation Project and M Release R&D work plan.
2. Discussion: Gather requirements and suggestions from industry (including operators, vendors, Thoth project representatives, etc.) on the Network Intelligent Collaborative Innovation Project. Based on the new project work plan, start project technical committee recruitment and network intelligence scenario requirements collection.

Slides & Recording

> ⓘ **YouTube**
>
> Please indicate your session type in the blank space below and then remove this Info field.
>
> - Demo / Informational (non-interactive)
>   - You may be asked to pre-record this session which will be made available on-demand.
> - Live Interactive Session
>
> LFN Staff may elect to publish some videos to YouTube. Please indicate here if you do not want your session to be published to YouTube.

Thoth Action Plan for Collaborative Innovation of Network Intelligence-final.pdf

Virtual Thoth Action Plan for Network Intelligence Collaborative Innovation.mp4 (The last ~30 min is just noise and random chatting.)

Agenda

- Introduction to Thoth's new work plan for the coming year
- Thoth goals and objectives discussions
- How many networks and what type of networks – Wireless, wireline, private, public, transport or access focus? Core? Customer Edge?
- Discussion to collect requirements for Network Intelligent Collaborative Innovation Project
    - Resources to support project work – storage repository for the data
    - Definition of data requirements
    - Operator use case requirements

Minutes

I think one fundamental issue is the lack of real world data. Without the data form network operators networks we can teach our models only with simulated model what always result in biased result. Is there any activity in Thoth to collect datasets from operators? The answer is yes we are trying to get some of the telecoms to contribute real world data. There are several data sets available (Orange), but not enough. The data it turns out is highly proprietary and unique to each provider. There are two approaches, gathering real data and then testing algorithms against it, or creating test data. Probably need a combination of both. The Network Intelligent Collaborative Innovation Project hosted by China Mobile.

Discussion of who are the participants need to be involved in an Network Intelligence project – usual suspects – Telecom, researchers, vendors? Need to define a deep learning set of use cases. Base it on existing use cases. Beth Cohenwould recommend to focus on the network components, rather than the operations use cases. Will we use Kaggle to manage the modals and datasets or do we plan to use something else / build something new for this?

Action Items

- [ ]