The 3rd Helsinki-HKUST-Tsinghua Workshop on Mobile Services and Edge Computing

July 27-29, 2016

Programme

Wednesday July 27

- Opening session
- Mobile offloading
- Edge networking
- Networking

Thursday July 28

- Edge applications
- Mobile and sensing applications
- Internet of Things
- Localization and sensing
- Social event

Friday July 29

- Security and privacy
- Big Data and applications
- Group Discussion & closing session

Organization

General Chairs

Prof. Sasu Tarkoma (University of Helsinki, Finland)

Dr. Aaron Yi Ding (Technical University of Munich, Germany)

Steering Committee

Prof. Sasu Tarkoma (University of Helsinki, Finland)

Prof. Pan Hui (HKUST, China)

Prof. Yong Li (Tsinghua University, China)

Prof. Jörg Ott (Technical University Munich, Germany)

Organizers & Web team

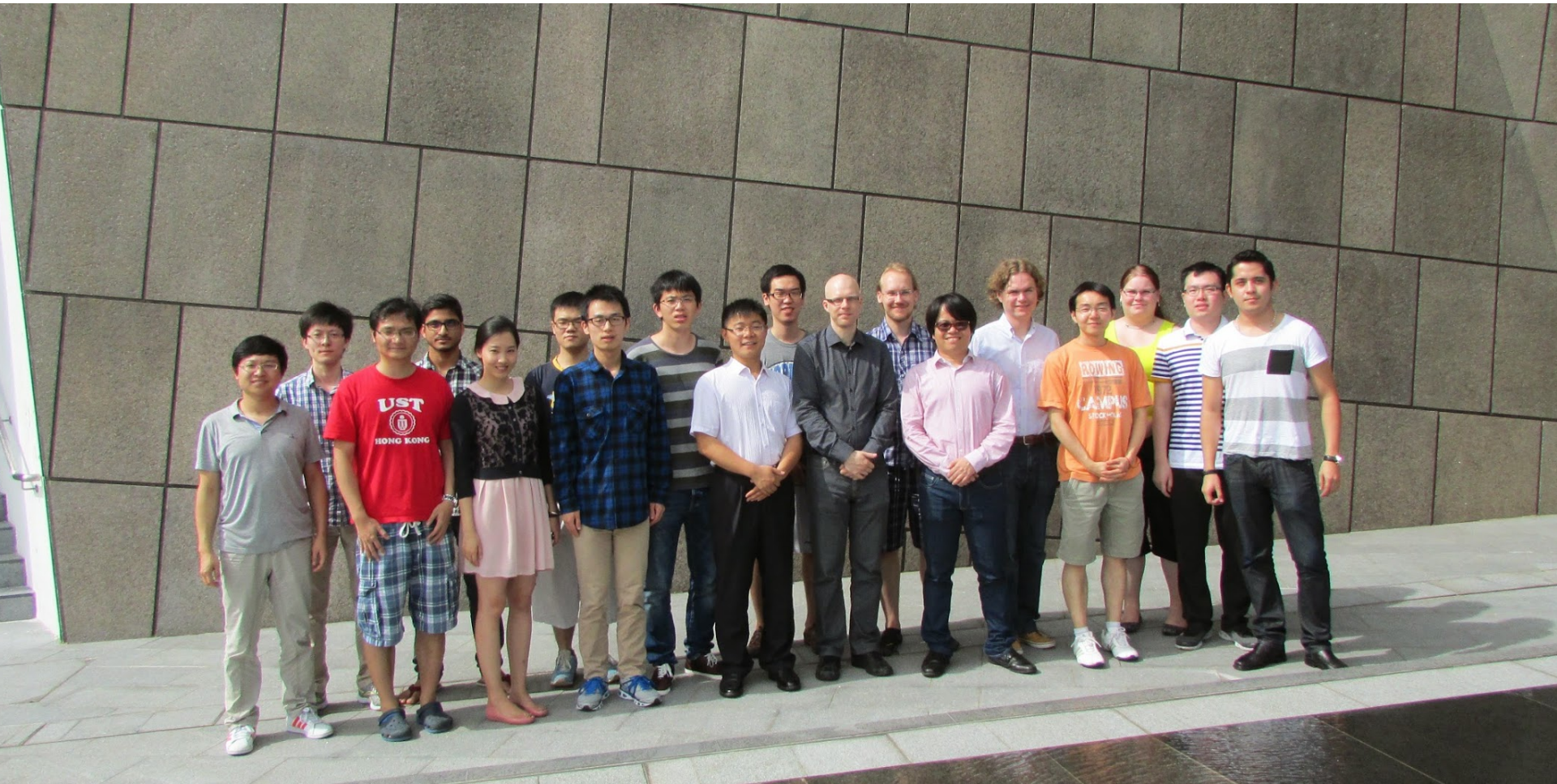
Ibbad Hafeez (University of Helsinki, Finland)

Lauri Suomalainen (University of Helsinki, Finland)

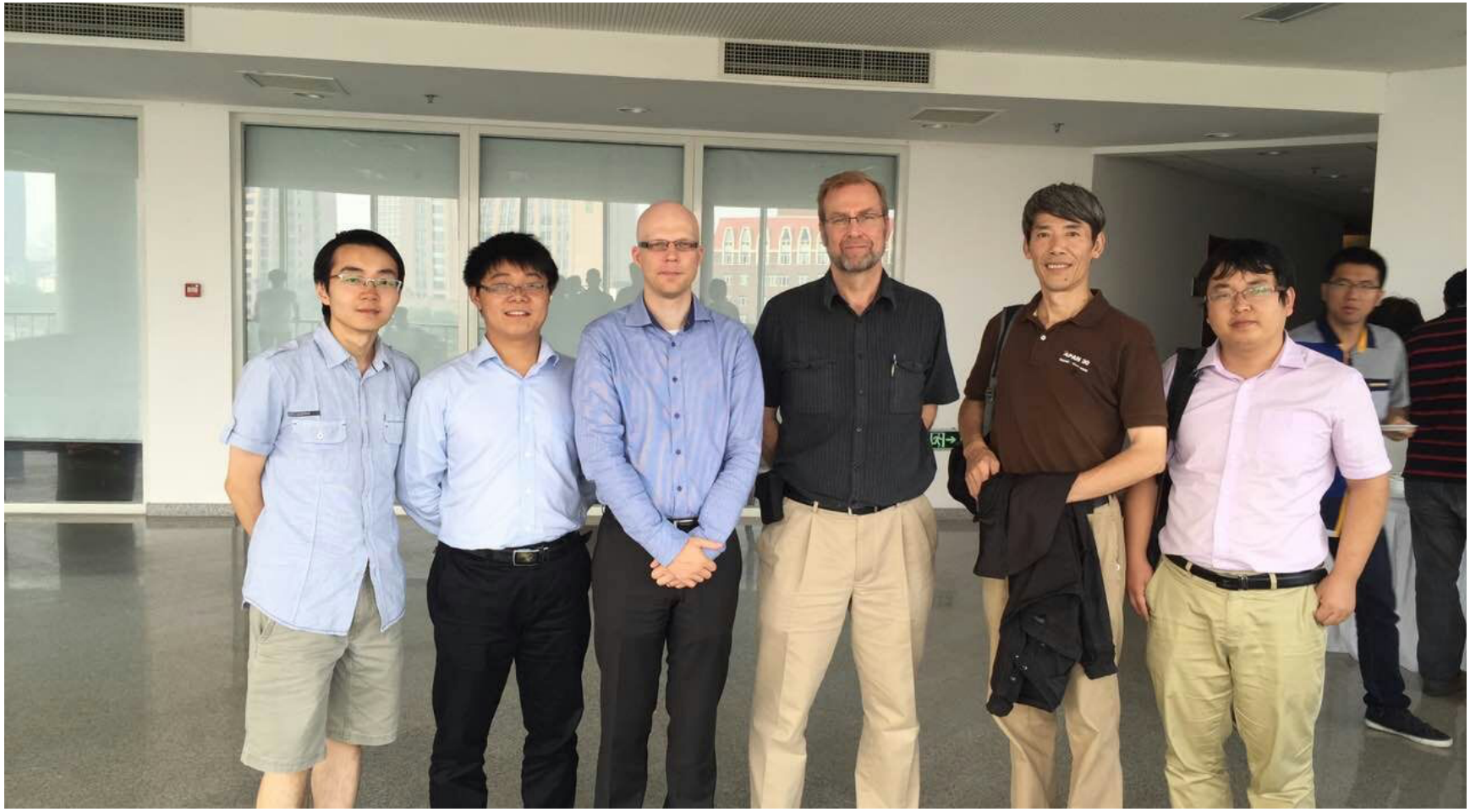
Previous events: 2014 in Hong Kong and 2015 in Beijing

Helsinki-HKUST-Tsinghua Workshop on Mobile and Cloud Computing 2-4 July 2014

https://sites.google.com/site/cloudmobilecomputingworkshop/home



Helsinki-HKUST-Tsinghua Workshop on Mobile Big Data and Networking in Sept. 2015



University of Helsinki

- The largest and the oldest university in Finland
- Key data for 2015
  - 32 000 students
  - 7 900 employees
  - 300 subjects
  - 6 100 degrees/year
  - 530 PhDs/year
- Founded in Turku 1640
- Moved to Helsinki 1828

The Main Building of the University

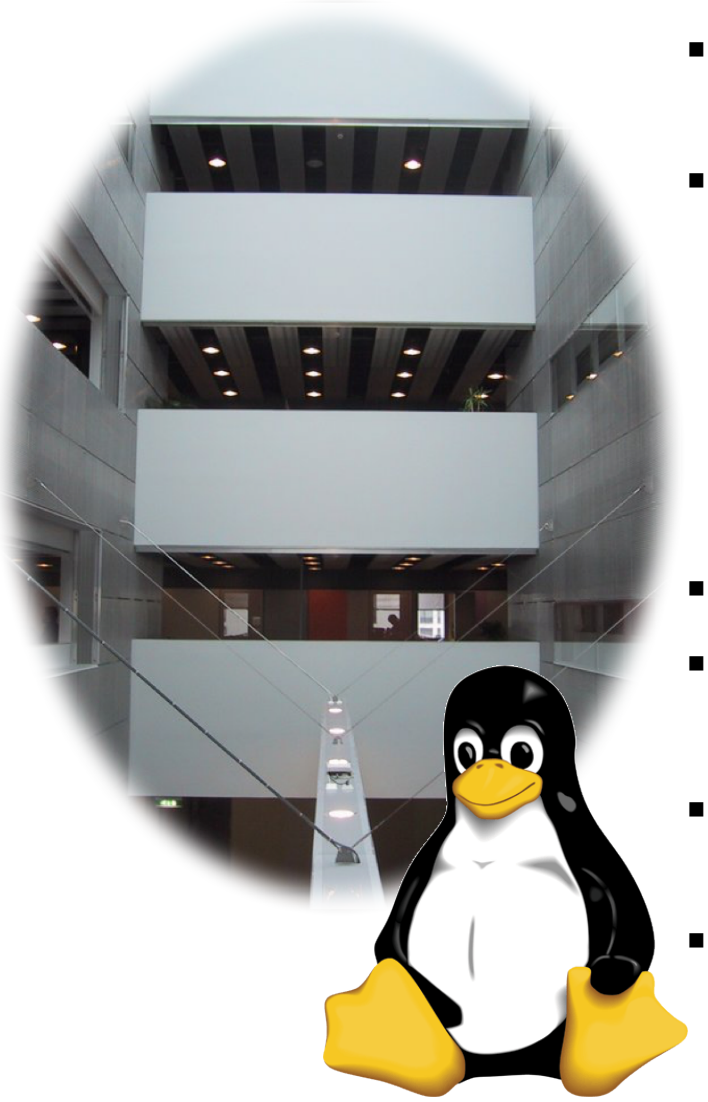
The Main Building of the university was designed by Carl Ludvig Engel and it was completed in 1832. It is located in the Helsinki's neoclassical center next to the Cathedral and the Government's Palace. The new side (Fabianinkatu) was completed in 1937 and it was designed by J.S. Siren who also designed the Parliament House.

Faculty of Science / Kumpula Campus

Departments

- Chemistry
- Computer science
- Geosciences and Geography
- Mathematics and Statistics
- Physics

Department of Computer Science



- Leading institution in Computer Science in Finland
- Students and employees 2015
  - 1 688 students (55 PhD students: nearly 32 000 credits)
  - 182 employees (178.3 FTE, 31.8% foreign, 21.8 % female)
- Part of the Faculty of Science
- Located in Exactum, Kumpula Campus
- Renowned for high quality of research and teaching
- The Linux kernel was originally developed at the Department by Linus Torvalds

Professors of the department

N. Asokan
Security and privacy

Aapo Hyvärinen
Neuro-informatics

Giulio Jacucci
Interactive systems, HCI

Jussi Kangasharju
Data networks and distributed systems

Jyrki Kivinen
Machine learning, algorithms

Jürgen Münch
Software systems

Tomi Männistö
Software engineering

Valtteri Niemi
Security

Petri Myllymäki
Intelligent systems, probability models

Veli Mäkinen
Combinatorial pattern matching

Jukka Paakki
Software systems

Sasu Tarkoma
Distributed systems and data communications

Hannu Toivonen
Data mining, bioinformatics, comp creativity

Esko Ukkonen
Algorithms, combinatorial pattern matching, bioinformatics, machine learning

NODES: Mission

The Networking and Services unit educates experts and strategic leaders for the design and realization of new, global platforms and infrastructures.

Organization

The unit consists of four professors, five lecturers, and many post doctoral researchers and PhD candidates.

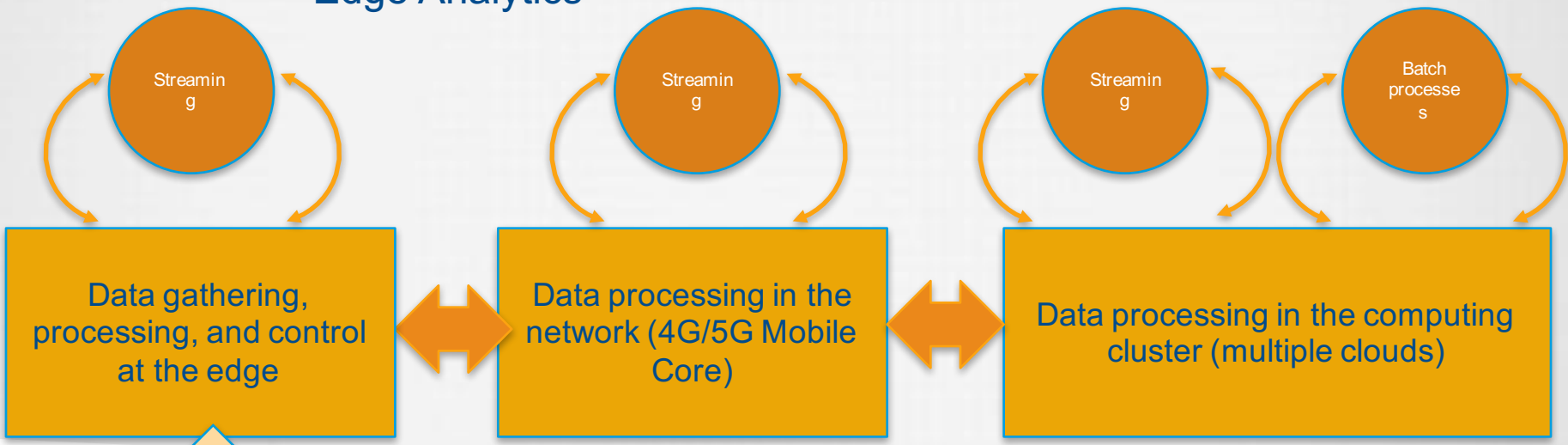
NODES is a community of interacting research groups in the field of networks and distributed systems, ranging from Internet protocols, wireless communication and ubiquitous computing to new challenges pertaining to globally interoperating business services and human-computer interaction.

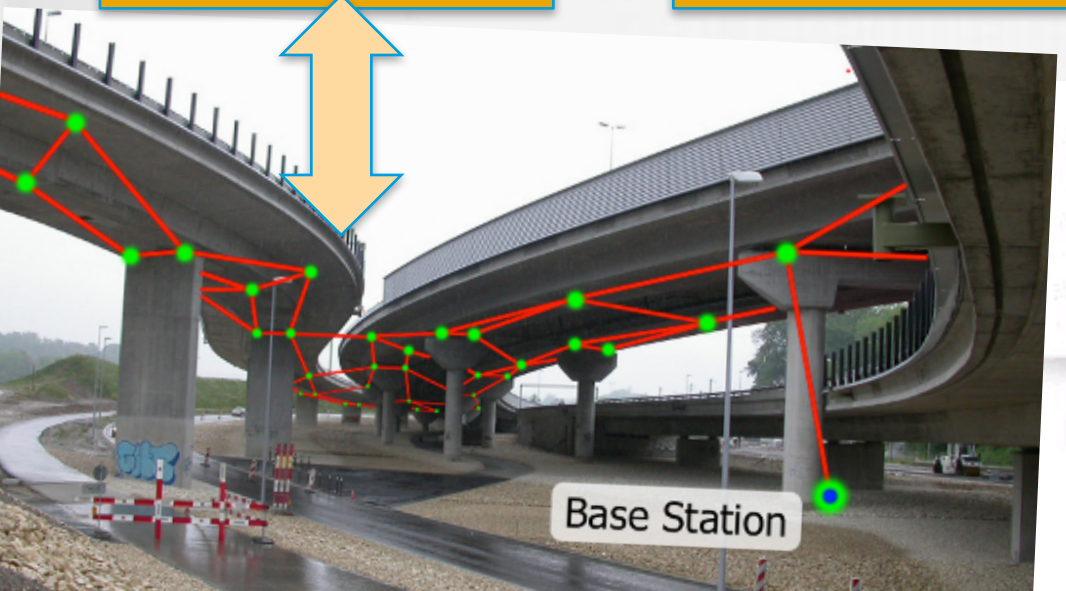
Themes:
Energy efficiency and diagnostics (Carat)
5G, Edge Computing, and ICN
Urban mobility and analytics
IoT Network Security

hadoop Spark

Edge Analytics

Big Data Frameworks





5G TNF

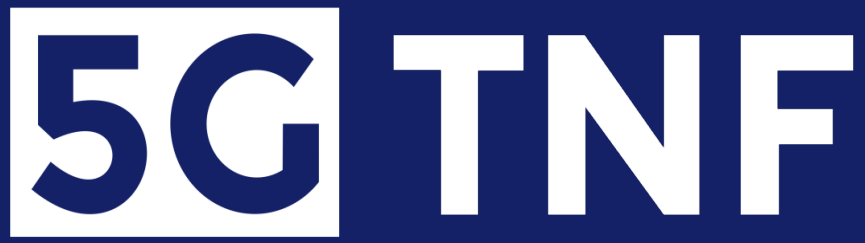
5GTNF Overview

- 5G Radio Network
- 5G Core Network
- Business and Regulation
- Internet of Things
- Network Functions Virtualization
- Network Management
- New Spectrum and Sharing Methods
- Quality of Service/Experience
- Software Defined Networking

EU
5G PPP / H2020, CELTIC+

ASIA
NSFC-FINNISH ACADEMY,
SINO-FINLAND ALLIANCE

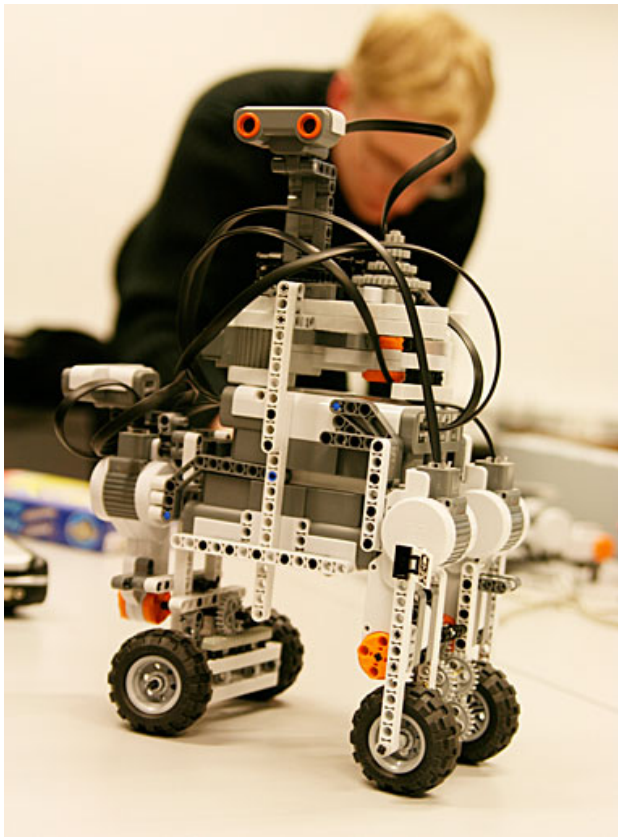
USA
WIFIUS PROGRAM



5G Test Network Finland

5gtnf.fi

More information



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