

**Python Lab Automation Hackathon**  
**(Sponsored by Nokia Bell Labs and Luster LightTech Group Corp)**

Time: Friday **Night**, October 26st, 2018

Organizers:

Haoshuo Chen, Nokia Bell Labs, USA

Nick Fontaine, Nokia Bell Labs, USA

Roland Ryf, Nokia Bell Labs, USA

Jochen Schröder, Chalmers University of Technology, Sweden

The main purpose of the event is to connect students, young professionals and experienced researches together to discuss designing, modeling, data processing and lab automation using Python.

In this hackathon we will provide several stations/demos, each staffed with a researcher.

19:00-19:18 Brief demo introduction:

19:00-19:03 Nick Fontaine, Roland Ryf and Haoshuo Chen, Nokia Bell Labs, USA

Topic: Python basics and installation

19:03-19:06 Ruben S. Luis, National Institute of Information and Communications Technology, Japan

Topic: Basic DSP for PDM-QPSK signals using Python

19:06-19:09 Jochen Schröder, Chalmers University of Technology, Sweden

Topic: QAMPy a DSP chain for optical communication signals

19:09-19:12 Yuqing Jiao and Ronald Broeke, TU/e and brightphotonics, Holland

Topic: Photonics IC design using Python

19:12-19:15 Hanzi Huang, Shanghai University, China

Topic: Deploy a Deep Neural Network model on FPGA using Python

19:15-19:18 Yetian Huang, Shanghai University, China

Topic: Lab equipment automation using Python

19:18-20:30 Demo and discussion