REQUIREMENTS FOR THE PRACTICAL SESSIONS AND HOW TO CONNECT INTO THE CLOUD

Wednesday, January 18:

Analysis and Multivariate Regression Modelling with Python for Gas Concentration Prediction: An Array of Commercial MOX Sensors as an Example of Chemical Sensing Unit.

- Python 3.7 or higher.
  - Download link: https://www.python.org/downloads/
- Packages: sys, numpy, pandas, matplotlib, sklearn, scipy.
  - How to install packages: https://packaging.python.org/en/latest/tutorials/installing-packages/
    - pip install numpy
    - pip install pandas
    - pip install matplotlib
    - pip install scikit-learn
    - pip install scipy

- Spyder (not mandatory but recommended) or your preferred IDE.
  - Spyder: https://www.spyder-ide.org/
  - Visual Studio Code: https://code.visualstudio.com/download

Thursday, January 19

Demonstration of wireless gas sensing networks

- Tested with Python 3.10.
- Package: Paho- MQTT
  - pip install paho-mqtt

How to connect into the cloud

1- Turn on your WiFi and connect into ISOCS or ISOCS_5G, the password is: WinterSchool2023
2- Go to your favorite browser and copy and paste this in the url: 192.168.3.11:9321
   - Then you will be asked to add a user and a pass:
     - User: isocs
     - Pass: WinterSchool2023