Welcome,

As part of the **Data4Water** *EU Twining* project, we are organizing a series of training sessions. This session is organised in Bucharest by UNESCO-IHE Institute for Water Education and University Politehnica of Bucharest.

This training session has the following topics: *Optimization and dynamic programming for water problems* and takes place from the 18th of October to the 20th of October 2017.  Detailed description of the content and venue of the training session is given bellow.

We look forward to seeing you in Bucharest soon.

The training session will take place at the *Faculty of Automatic Control and Computers, University Politehnica of Bucharest*.

**The detailed syllabus of the training courses** is as follows:

**October 18th:**
›	Morning session
- Introduction to optimisation:
    o Definitions (single objective, multiple objective, constrained-unconstrained, etc)
    o Traditional methods (Calculation by hand, linear programming, dynamic programming)
    o Optimization for water related problems
    o Examples
›	Afternoon session
- Exercises/applications for simple water related problems

**October 19th:**
›	Morning session
- Model based optimisation
- Water case studies
- Genetic algorithms
›	Afternoon session
- Calibration in hydrological modelling.

**October 20th:**
›	Morning session
- Student presentations
- Evaluate the course
- Closing the course

**Application procedure:**

To apply please send an email to elena.apostol@cs.pub.ro or catalin.leordeanu@cs.pub.ro.
This Training Session is targeted at PhD/MSc/undergrad students and other researchers. There is **no** participation **fee**.

**Important dates:**

The closing date for applications is:  16th October 2017

Please direct all enquiries to elena.apostol@cs.pub.ro or catalin.leordeanu@cs.pub.ro.

**Trainers:**

- **Prof. Dr. Ioana Popescu**, IHE Institute
- **Prof. Dr. Andreja Jonoski**, IHE Institute
- **Dr. Elena Apostol**, *UPB*
- **Dr. Leordeanu Catalin**, *UPB*