



# EuroCC@Greece

## EuroCC@Greece HPC Training Series – Course 20 “Gradient-based and gradient-free optimization, with applications to CFD and beyond”, on March 4th, 2026

 February 25, 2026

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A promotional banner for the HPC Training Series. It features the EURO Greece logo and the National Technical University of Athens logo. The text reads: "HPC Training Series", "Course 20", "Gradient-based and gradient-free optimization, with applications to CFD and beyond", and "PRESENTATION LANGUAGE: GREEK". At the bottom, it states "MARCH 4, 2026 | 10:00 EET | ONLINE".

**HPC Training Series**

**Course 20**

**Gradient-based and gradient-free optimization, with applications to CFD and beyond**

| PRESENTATION LANGUAGE: GREEK |

**MARCH 4, 2026 | 10:00 EET | ONLINE**

EuroCC@Greece and the National Technical University of Athens announce the 20th Course of HPC Training Series with the subject “Gradient-based and gradient-free optimization, with applications to CFD and beyond”, taking place online on March 4th, 2026.

**Presentation language:** Greek

**Audience:** Suitable for students, researchers, and engineers interested in understanding and using optimization algorithms in

CFD and other disciplines.

**Course Description:** This course includes an introduction to the adjoint-assisted, gradient-based optimization workflow of the open-source CFD toolbox, OpenFOAM, with some demo applications and continues with an introduction to gradient-free optimization methods, such as evolutionary algorithms, with emphasis on metamodels and artificial intelligence for reducing the optimization turnaround time.

More information and the course's Agenda can be found [here](#).

**Register to attend by filling out the form [here](#).**

No Tag



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