

→ Agenda NHR4CES Training

NUMERICAL METHODS IN COMBUSTION

Location: Online event | Registration: [click here](https://eveeno.com/numerical_methods_for_combustion_2024) (https://eveeno.com/numerical_methods_for_combustion_2024)

Thursday, Nov 21, 2024, 2-6 pm

2.00 pm — **Welcome**

L. NISTA | RWTH AACHEN UNIVERSITY

2.05 pm — **Direct numerical simulation of turbulent premixed hydrogen flames**

D. KADDAR | TU DARMSTADT

2.40 pm — **Accelerating reactive flow simulations using GPUs**

M. VIVENZO | RWTH AACHEN UNIVERSITY

3.15 pm — **Parallel implementation and performance of super-resolution generative adversarial network turbulence models for large-eddy simulation**

L. NISTA | RWTH AACHEN UNIVERSITY

3.50 pm — **Coffee break**

4.10 pm — **Challenges on the path to a multi-cycle LES of knock combustion initiation**

DR. M. KIRCHER | TU DARMSTADT

4.45 pm — **Large eddy simulation of soot formation in compression ignition engines**

DR. M. DAVIDOVIC | RWTH AACHEN UNIVERSITY

5.20 pm — **Multi-objective Bayesian optimization for combustion CFD**

M. E. FADELI | TU DARMSTADT

5.55 pm — **Closing**

D. KADDAR | TU DARMSTADT

[CLICK HERE FOR REGISTRATION](#)