

# NOMICC 26



**4-day Summer School on:**

## **Nonlinear Optimization with Mixed-Integer and Complementarity Constraints**

**29 September – 2 October 2026, University of Freiburg,  
Germany**

**Lecturers:** Sven Leyffer, Moritz Diehl, Andrea Ghezzi, Armin Nurkanović

**Content:** The focus of the school are computational methods for solving mixed-integer nonlinear programs (MINLPs) and mathematical programs with complementarity constraints (MPCCs). The school covers the basics of the theory of nonlinear optimization, MINLPs, and MPCCs. It covers both classical algorithmic results, as well as the most recent developments for these problem classes. The school also presents modeling and formulation guidelines, discusses when it is preferable to use integer variables or complementarities for discrete and logical relations. It will have interactive and innovative hands-on exercise sessions where participants apply these ideas to formulate and solve challenging optimization problems from various application fields.

**Targeted audience:** For academic and industrial researchers, in particular PhD students in engineering, mathematics, computer science, and physics.

**Registration:** Before August 31<sup>st</sup>, 2026, until the limit of 50 participants is reached. The registration fee of 350 EUR includes coffee breaks, and dinner with all participants.

**Location:** The course takes place in a historical university building at the heart of Freiburg's old town.



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