

The 25th Workshop on Constraint Modelling and Reformulation

ModRef 2026

19/07/2026 - Lisbon

12 submissions and accepted papers

- 5 long papers (up to 15 pages)
- 6 short papers (up to 8 pages)
- 1 extended abstract (up to 2 pages)

4 sessions: 2 morning, 2 afternoon

One invited talk

A retrospective quiz of the 25 editions of ModRef

<https://2026.modref.org/>

A glance at the program

09:10-10:30 Session 1: Constraint Modelling and Propagation

09:10-09:30 Defining Propagators in MiniZinc

Jip J. Dekker, Peter J. Stuckey, Guido Tack, Huu Quang Tran, Markus Wagner

09:30-09:50 Propagation Algorithms for the Minimum-Distance Constraint over Selected Points

Mikael Zayenz Lagerkvist

09:50-10:10 Machine Learning-Based Generalization Queries for Constraint Acquisition

Dimos Tsouros, Senne Berden, Tias Guns

10:10-10:30 Paramita: An Extensible Framework for SATisfiability Solving

Josep Alòs, Carlos Ansótegui, Juan Luis Esteban, Eduard Torres

10:30-11:00 Coffee Break

A glance at the program

11:00-11:40

Session 2: Puzzles

11:00-11:20

An Interactive Application to Solve Sudoku Variant Puzzles

Helmut Simonis, Luis Quesada

11:20-11:40

Scaling Sudoku as a Constraint Problem

Mikael Zayenz Lagerkvist

11:40-12:20

Invited Talk

11:40-12:20

Reformulation in MaxSAT: Resolution Rules and Gadgets

Carlos Ansótegui (Universitat de Lleida)

12:20-13:50

Lunch Break

A glance at the program

13:50-14:30 Session 3: Automated Generation and Reformulation

13:50-14:10 Computing Gadgets

Josep Alòs, Carlos Ansótegui, Supratik Chakraborty, Eduard Torres

14:10-14:30 Towards Automated Generation of Benchmark Instances with Diverse Solver Performance

Tianchen Wu, Ian Miguel, Nguyen Dang

14:30-15:20 25th Anniversary Event: Retrospective and Quiz (+ MiniZinc Derby presentation)

15:20-15:50 Coffee Break

Prize for the Quiz Winner



A glance at the program

15:50-17:00 Session 4: Applications

15:50-16:00 Novel Pair- and Topic-Swapping

Frej Knutar Lewander, Jennifer Jennifer Gross, María Andreína Francisco Rodríguez

16:00-16:20 No More Awkward Silences with Table Talk Tuning

Martin Butler, Mikael Zayenz Lagerkvist

16:20-16:40 A Simple Yet Efficient Lifted Formulation for Hard-to-Ground Planning Problems

Miquel Bofill, Cristina Borralleras, Josu Oca

16:40-17:00 Solution Checking with CPMpy

Hendrik Bierlee, Tias Guns

Special thanks to

Chairs:

Jordi Coll and Felix Ulrich-Oltean

Program Committee:

Özgür Akgün	Emir Devirović	Emmanuel Hebrard	Gilles Pesant
Carlos Ansótegui	Joan Espasa Arxer	Christopher Jefferson	Pierre Schaus
Hendrik Bierlee	María Andreína Francisco Rodríguez	George Katsirelos	Christine Solnon
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Sami Cherif	Ramiz Gindullin	Peter Nightingale	Mateu Villaret
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Recopilation of papers of all editions of ModRef: Bernardo Subercaseaux

All authors and speakers