January 30 - May 5, 2023

ORGANIZING COMMITTEE
Jesus DeLeora, University of California, Davis
Antoine Deza, McMaster University
Marcia Fampa, Federal University of Rio de Janeiro
Voker Kaibel, Otto-von-Guericke University Magdeburg
Jon Lee, University of Michigan
Laura Sanita, TU Eindhoven

PROGRAM DESCRIPTION
Discrete optimization is a vibrant area of computational mathematics devoted to efficiently finding optimal solutions among a finite or countable set of possible feasible solutions. Discrete optimization problems naturally arise in many kinds of applications and connect a variety of areas in mathematics, computer science, and data analytics including approximation algorithms, convex and tropical geometry, number theory, real algebraic geometry, parameterized complexity theory, quantum computing, machine learning, and mathematical logic.

This program will bring together a diverse group of researchers to explore links between mathematical tools and unsolved fundamental questions. We plan to explore computational techniques from discrete optimization and will continue the tradition of designing new algorithms for applied and industrial problems.

Affiliated Workshops:
- Linear and Non-Linear Mixed Integer Optimization: Algorithms and Industrial Applications (Feb 27-, March 3, 2023)
- Combinatorics and Optimization (March 27-31, 2023)
- Trends in Computational Discrete Optimization (April 24-28, 2023)