



Large Scale Optimization 3rd Summer School and Conference

02-10 April 2023

The third edition of the Large Scale Optimization (LSO) Summer School and Conference will be held during April 2-10, 2023 at the Department of Industrial and Management Engineering, Indian Institute of Technology Kanpur in association with the Brij Disa Centre for Data Science and Artificial Intelligence, Indian Institute of Management Ahmedabad. The last two editions of the summer school, held at the Indian Institute of Management Ahmedabad (2022) and Indian Institute of Management Indore (2019), received encouraging response from both the academic and business communities.

Topics

Tutorial during the Summer School will be offered on the following topics. Papers for the conference are invited on the following topics; other topics under LSO are also encouraged.

- Modeling Integer Programs and Mixed Integer Programs
- Modeling using AMPL (A Mathematical Programming Language)
- Modeling in C/C++/Python for IBM Cplex/ Gurobi
- Valid Inequalities & Cutting Plane Method
- Benders Decomposition
- Lagrangian Relaxation
- Column Generation
- Dantzig-Wolfe Decomposition
- Robust Optimization
- Multi-level Optimization
- Non-linear Programming
- Mixed Integer Non-linear Programming
- Heuristics for LSO

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