NUMTA 2026 Special Session on

Discrete optimization: Methods and applications

Special Session Organizers:

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The session focuses on methods for solving discrete single- and multi-objective optimization problems, including, but not limited to, exact or approximation methods, heuristics, and metaheuristics. The scope of the session also includes applications of discrete optimization methods in operations research, data analysis, modeling, decision support systems, and related areas. The session also covers robust optimization, stochastic and uncertainty-aware discrete optimization methods, with a focus on handling incomplete or uncertain data. It also includes research that combines discrete optimization with artificial intelligence techniques to enhance the performance and applicability of optimization methods. Both theoretical studies and applied research presenting computational experiments or real-world case studies are welcome.