## Program of the 1st International Workshop on Explainability and Interpretability in Optimization

Day 1: Wednesday, September 17, 2025		
09:00-09:30	Welcome and Introductions	
09:30-11:00	Talk Session 1: Multiobjective Optimization	Speaker
	Explainable Interactive Multiobjective Optimization: The What, The How, and Why You Should Care	Giovanni Misitano
	An Estimate-and-Optimize Method for Interpretable Inverse Multiobjective Optimization	Nuria Gómez Vargas
	Automatic Explanations of Computation Results with Value Decompositions and Dominating Sets	Prashant Kumar
11:00-11:30	Coffee Break	
11:30-13:00	Talk Session 2: Interpretable Algorithms and Decisions	Speaker
	Interpretable Policies for Markov Decision Processes	Daniël Vos
	Interpretable Surrogates for Optimization	Sebastian Merten
	Explainability in Hyper-Heuristics	Edward Keedwell
13:00-14:00	Lunch Break	
14:00-15:30	Talk Session 3: XAI and AI for Explainability in Optimization	Speaker
	Explainability in Credit Risk Modeling using LLMs with Tabular and Network Data	María Óskarsdóttir
	Collective LIME: Enhancing the Explainability of the Explainer	Dolores Romero Morales
	Coherent Local Explanations for Mathematical Optimization	Daan Otto
15:30-16:00	Coffee Break	
16:00-17:30	Working Session 1: Open Problems and New Concept	
19:00-	Dinner: Tucher-Bräu am Opernhaus (Am Kartäusertor 1, 90402 Nürnberg)	

Day 2: Thursday, September 18, 2025			
09:00-10:30	Talk Session 4: Applications and Case Studies	Speaker	
	Explanations for an Industrial Workforce Allocation Problem	Ignace Bleukx	
	Estimating Maintenance Cost of Offshore Substations: A Case Study for Interpretability and Explainability in Optimization	Solène Delannoy-Pavy	
	Impactful Optimization by Constraining Oneself to Transparency, Fairness and Explainability	Frans de Ruiter	
10:30-11:00	Coffee Break		
11:00-12:30	Talk Session 5: Counterfactual Explanations	Speaker	
	Counterfactual Explanations for Unsatisfiable Producer/Consumer Problems	Helmut Simonis	
	Counterfactual Explanations for Integer Linear Optimization	Jannis Kurtz	
	Relative Explanations for Contextual Problems with Endogenous Uncertainty: An Application to Competitive Facility Location	Jasone Ramírez-Ayerbe	
12:30-13:30	Lunch Break		
13:30-15:00	Talk Session 6: From Data to Decisions	Speaker	
	On a Computationally Ill-Behaved Bilevel Problem with a Continuous and Nonconvex Lower Level	Johannes Thürauf	
	Data-driven Explainable Mathematical Optimization Including Feature Selection	Kevin Aigner	
	Via Classical Nonlinear Optimization to Machine Learning and Back	Krzysztof Postek	
15:00-15:30	Coffee Break		
15:30-16:30	Working Session 2: Consolidation		
16:30–16:45	Closing		