



Hyper-heuristic for Complex Logistics Operations

 Wednesday 15 July 2026, 11:00am to 12:00pm

Venue

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Open to

Postgraduates, Staff

Registration

Registration not required - just turn up

Event Details

CENTRAL Seminar

Real-world routing and scheduling problems are often characterised by complex operational constraints, dynamic decision environments and competing business objectives that make exact optimisation impractical. Hyper-heuristics offer a higher-level search methodology that aims to automate the selection and coordination of problem-specific heuristics, reducing the need for extensive manual algorithm design while maintaining strong solution quality. This talk presents the application of selection hyper-heuristics to industrial routing and scheduling problems, with a focus on large-scale inventory routing and logistics operations. Using a real-world case study from the industrial gas distribution sector, I will demonstrate how sequence-based hyper-heuristics can learn effective combinations of low-level heuristics during the search process and adapt their behaviour according to observed performance.

Speaker

[Ahmed Kheiri](#)

University of Manchester

Ahmed's research focuses on hyper-heuristics and metaheuristics for optimisation. He develops adaptive search methods that automatically learn how to solve complex decision problems, with applications in transportation, scheduling and healthcare. His work has appeared in leading journals including Transportation Science and the European Journal of Operational Research, and he is internationally recognised for his contributions to hyper-heuristic research.

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