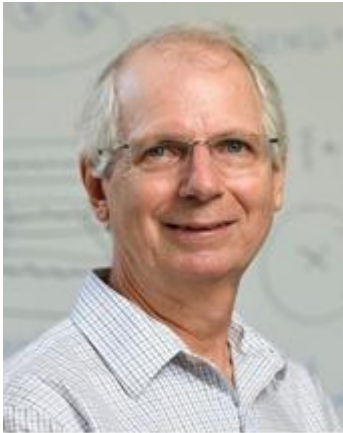


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The Traveling Salesman Problem and Computational Discrete Optimization

We will use the TSP to discuss some of the fundamental computational techniques in discrete optimization, including the cutting-plane method, branch-and-bound, and local search. Our emphasis will be on recent computational progress on the exact solution of large-scale models. We will include a discussion of the techniques used to win the \$100,000 top prize in the 2021 Amazon Last Mile Routing Challenge, together with Stephan Held and Keld Helsgaun