

# Designing Interaction Systems using Combinatorial Optimizations

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Combinatorial optimization is a mathematical method that is used to find an optimal possible solution to a problem with a large number of potential solutions. In the context of human-computer interactions, this method can be used to design user interfaces that are efficient, intuitive, and easy to use. It has already been applied to the design of various user interfaces, including keyboards, menu systems, graphical user interfaces, information visualizations, input methods, and haptic communication systems. The presentation will describe the principles of combinatorial optimization and discuss how they can be used to design interactive systems and interfaces. It will also provide examples of successful applications of this method in interaction design. Overall, the presentation will demonstrate the potential of combinatorial optimization in the design of human-computer interactions and interfaces.