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Chapter 12 User interfaces

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Publisher Summary

This chapter presents theories, guidelines, and techniques to help design and build user interfaces for delivering operations research (OR) applications. The chapter presents a framework describing the lifecycle of an OR project and also discusses the theory and design of user interfaces; delved into cognitive psychology, because one-half of the user interface is human. This forms the basis for techniques and systems for facilitating the implementation of user interfaces, including current hardware and software technology, concluding user interface management systems that are designed to speed the implementation of user interfaces. The disciplines closely related to OR, including interactive optimization, decision support systems (DSS), and modeling languages for mathematical programming are also covered. Throughout, each of these fields is related to the framework for OR projects, identifying successful applications, potential pitfalls, and research opportunities.

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