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highlights some of the main elements of operations research and discusses a number of potential difficulties and pitfalls operations research is a multidisciplinary field that is concerned with the application of mathematical and analytic techniques to assist in decision making operations research stanford the discipline of operations research develops and uses mathematical and computational methods for decision making the field revolves around a mathematical core consisting of several fundamental topics including optimization stochastic systems simulation economics and game theory and network analysis research at the mit orc we highly value research and the important role it plays in operations research and analytics that s why our students are actively engaged in research from the start read more global impact our impact can be felt around the world in areas ranging from finance to education to health care home publications informs offers a wide array of content and information about 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