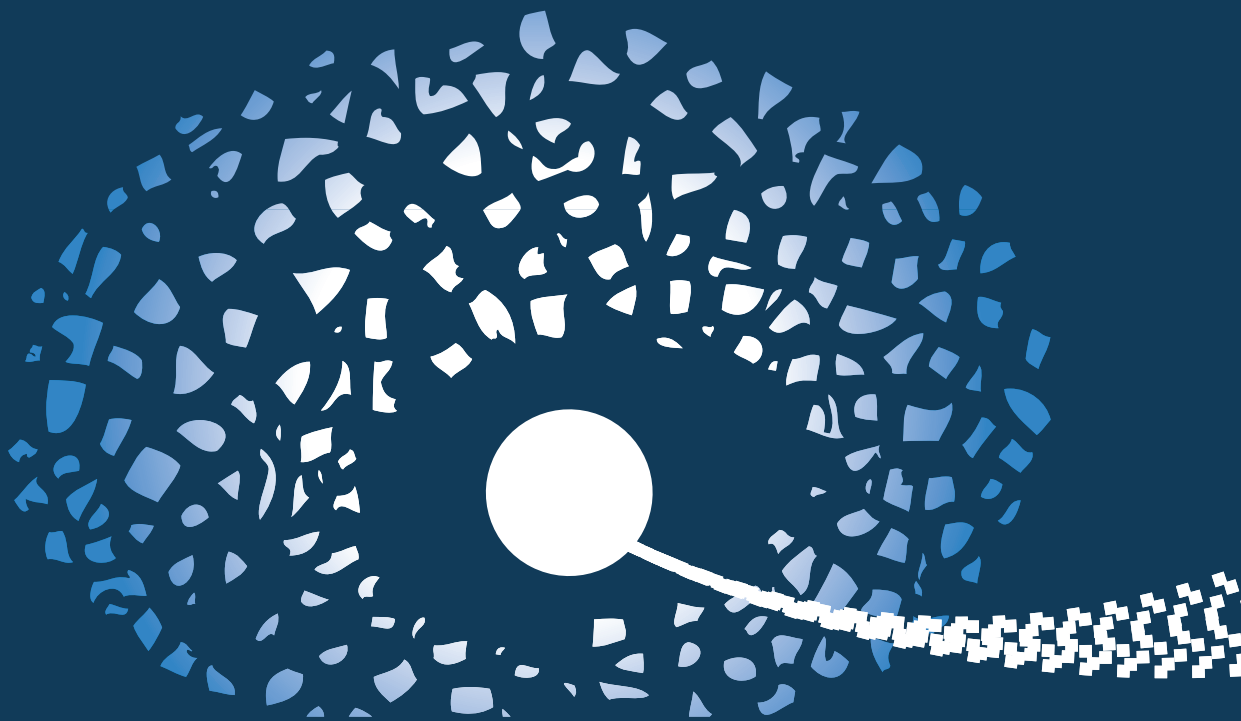


In this thesis a number of challenging problems related to health care logistics are addressed. These problems are motivated by hospital managers who collaborated in the research, and the results are applied at their hospitals. The general results are valid in other hospital settings and the solution approaches used to cope with system complexity and patient flow uncertainty are novel. Using and developing techniques from queueing theory, mathematical programming, and simulation, multiple strategic, tactical and operational problems are solved, demonstrating how complexity and uncertainty can be coped with in health care settings.



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