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Nir Lipovetzky,2014-09-16 Classical planning is the problem of finding a sequence of actions for achieving a goal from an initial state assuming that actions have deterministic effects The most effective approach for finding such plans is based on heuristic search guided by heuristics extracted automatically from the problem representation In this thesis we introduce alternative approaches for performing inference over the structure of planning problems that do not appeal to heuristic functions nor to reductions to other formalisms such as SAT or CSP We show that many of the standard benchmark domains can be solved with almost no search or a polynomially bounded amount of search once the structure of planning problems is taken into account In certain cases we can characterize this structure in terms of a novel width parameter for classical planning *Transactions on Rough Sets IX* Henryk Rybinski,2008-12-18 This book is the ninth volume of the Transactions on Rough Sets series The 26 papers in it introduce new advances in the foundations and applications of artificial intelligence engineering image processing logic mathematics medicine music and science *Discovery and Representation of Causal Relationships from a Large Time-Oriented Clinical Database: The RX Project* R. L. Blum,2013-03-12 As a hospital physician it is impossible to escape the notion that the difficult medical problems one encounters are also being confronted by other physicians throughout the world It is equally apparent that without special effort one s own patient observations will not be shared with others Without the medical literature there would be almost no meaningful shadng of experience Medical textbooks and journals contain reports of the latest tests and treatments from university hospitals and research centers There are however definite limitations to the medical literature First the literature records only a miniscule and highly select portion of medical experience Second because of this selectivity it may be difficult to apply the findings and recommendations in the literature to one s own patients One serious consequence of these characteristics of the medical

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