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Goal-Based Reasoning for Argumentation

This book provides an argumentation model for means-end reasoning, a distinctive type of reasoning used for problem-solving and decision-making. Means-end reasoning is modeled as goal-directed argumentation from an agent's goals and known circumstances, and from an action selected as a means, to a decision to carry out the action.

Goal-Based Reasoning for Argumentation provides an argumentation model for this kind of reasoning, showing how it is employed in settings of intelligent deliberation where agents try to collectively arrive at a conclusion on what they should do to move forward in a set of circumstances. The book explains how this argumentation model can help build more realistic computational systems of deliberation and decision-making and shows how such systems can be applied to solve problems posed by goal-based reasoning in numerous fields, from social psychology and sociology, to law, political science, anthropology, cognitive science, artificial intelligence, multi-agent systems, and robotics.

DOUGLAS WALTON is a Canadian academic and author, well known for his many widely published books and papers on argumentation and logic. He is Distinguished Research Fellow of the Centre for Research in Reasoning, Argumentation, and Rhetoric at the University of Windsor, Canada. Walton's work has been used to better prepare legal arguments and in helping to develop artificial intelligence. His books have been translated worldwide, and he attracts students from many countries to study with him.

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For Karen, with love

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