

Commonsense Reasoning: Book announcement

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The following is a book which readers of this list might find of interest. For more information please visit <http://www.signiform.com/csr/>

Commonsense Reasoning
Erik T. Mueller
ISBN 0-12-369388-8
432 pages
Morgan Kaufmann, an imprint of Elsevier

To endow computers with common sense is one of the major long-term goals of artificial intelligence research. One approach to this problem is to formalize commonsense reasoning using mathematical logic. Commonsense Reasoning is a detailed, high-level reference on logic-based commonsense reasoning. It uses the event calculus, a highly powerful and usable tool for commonsense reasoning, which Mueller demonstrates as the most effective tool for the broadest range of applications. He provides an up-to-date work promoting the use of the event calculus for commonsense reasoning, and bringing into one place information scattered across many books and papers. Mueller shares the knowledge gained in using the event calculus and extends the literature with detailed event calculus solutions to problems that span many areas of the commonsense world.

Features:

- * Covers key areas of commonsense reasoning including action, change, defaults, space, and mental states.
- * Focuses on how to use the event calculus to actually perform commonsense reasoning; other texts focus only on the formalisms.
- * Includes fully worked out proofs and circumscriptions for every example.
- * Describes software tools that can be downloaded (<http://decreasoner.sourceforge.net>) and used for automated commonsense reasoning, and real-world applications that have been built using the event calculus.

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