The Hidden Logic of Sudoku (second edition) - Introduction

Denis Berthier

Abstract: "The Hidden Logic of Sudoku" provides the first systematic perspective of the logical foundations and of the symmetries of the popular game. These are fully exploited to define new kinds of resolution rules, new graphical representations that may ease the solving process and a precedence ordering of the rules consistent with their logical complexity. In addition to a few elementary rules, the very classical and basic pattern of xy-chains has been extended as far as its underlying logic allowed, into a homogeneous set of chain rules of progressively increasing complexity. It suffices to solve almost any puzzle without making guesses, dealing with chains of subsets or with nets or assuming the uniqueness of a solution. These rules are illustrated with a hundred puzzles, together with their full resolution paths. They have been tested in an Artificial Intelligence (AI) engine and tens of thousands of puzzles have been processed, leading to a precise evaluation of the efficiency of each rule. This book is intended for Sudoku players of all levels: they will discover many new facets of the game and new types of resolution rules - introduced in a pedagogical way and set in a uniform conceptual framework based on patterns. It is also intended for teachers or students of Logic or AI: they will appreciate the strict logical foundations.

Mots-clés: AI, Constraint Satisfaction, Constructive Logic, Logic Games, Sudoku

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PARTAGER
IMO, Andy Stuart's "Logic of Sudoku" is a better book. I have "The MENSA Guide to Solving Sudoku", as well as some books by Paul Stephens. This book is way too technical. But if someone wants it, maybe [...] has it. After reading this book the hidden logic of Sudoku will be even more hidden. The author is way to technical and for someone who wants to understand Sudoku logic they will probably say this is to complicated for me. The Mensa Guide To Solving Sudoku is a far better book. Read more. 2 people found this helpful.

This pedagogical book is intended for both Sudoku players (who will discover many new facets of the game and new rules - all set in a uniform conceptual framework based on patterns) and teachers or students of Logic or AI (who will appreciate the strict logical foundations).

Wat mensen zeggen - Een review schrijven. We hebben geen reviews gevonden op de gebruikelijke plaatsen. Overige edities - Alles weergeven. The Hidden Logic of Sudoku Denis Berthier Geen voorbeeld beschikbaar - 2007. Bibliografische gegevens. Titel. This pedagogical book is intended for both Sudoku players (who will discover many new facets of the game and new rules - all set in a uniform conceptual framework based on patterns) and teachers or students of Logic or AI (who will appreciate the strict logical foundations). Details. Author(s). Pr Denis BERTHIER. Format. Paperback | 416 pages. Dimensions.