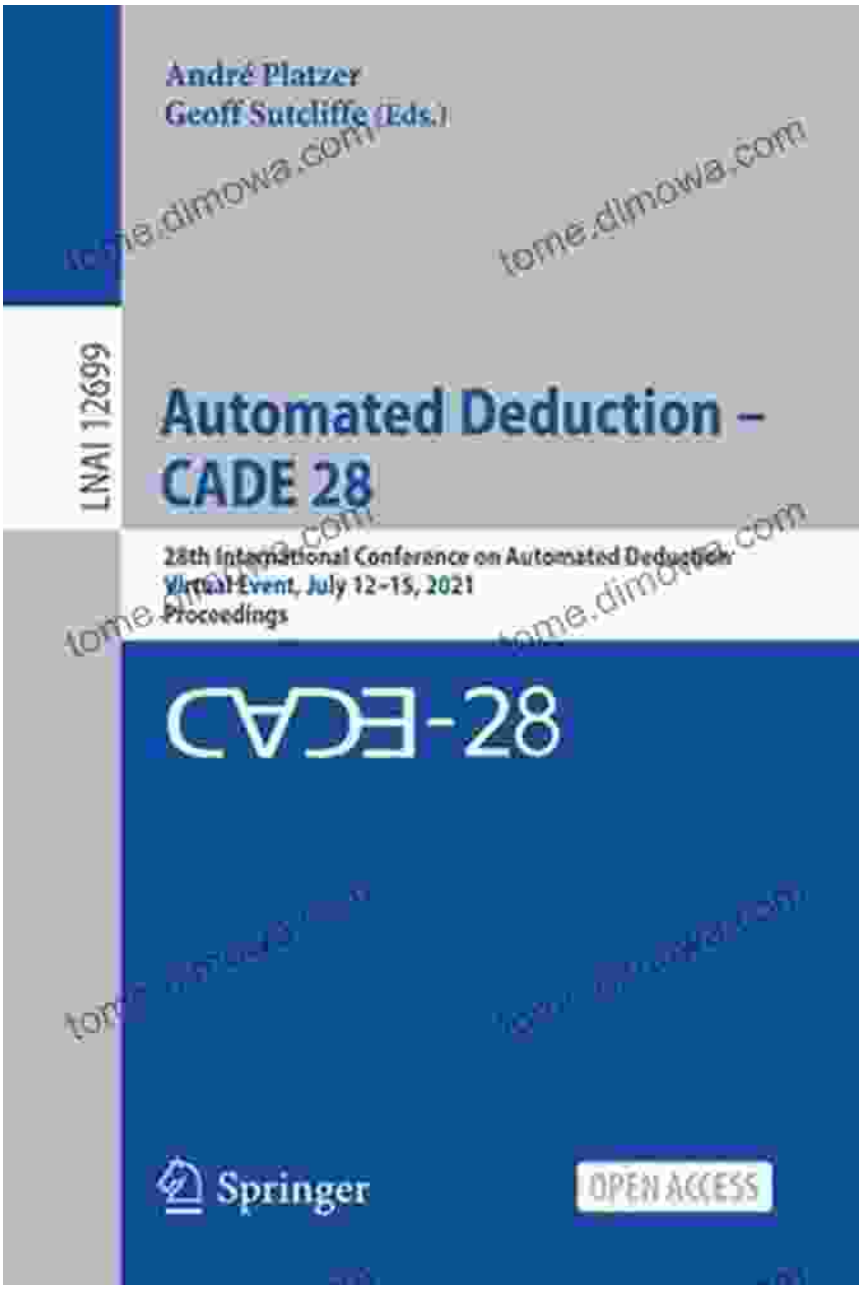
Automated Deduction: Unlocking the Secrets of Logical Reasoning

28th International Conference on Automated Deduction Virtual Event: July 12-15



The 28th International Conference on Automated Deduction (CADE-28) will be held virtually from July 12 to 15, 2021. This prestigious event brings together researchers and practitioners from around the world to discuss the latest advancements in automated deduction, a subfield of artificial intelligence that focuses on developing techniques for computer-aided reasoning and proof checking.

Automated Deduction – CADE 28: 28th International Conference on Automated Deduction, Virtual Event, July 12–15, 2024, Proceedings (Lecture Notes in Computer Science Book 12699) by Jamal T. Manassah

★★★★★ 5 out of 5

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What is Automated Deduction?

Automated deduction refers to the use of computers to perform logical reasoning tasks. It involves developing algorithms and software tools that can automatically derive new s from a set of given axioms and rules. Automated deduction is used in various applications, including:

* **Verification and validation:** Proving the correctness of hardware designs, software code, and mathematical proofs * **Knowledge representation and reasoning:** Creating computer-understandable knowledge bases and performing logical inferences * **Natural language processing:** Understanding the meaning of natural language text and generating logical representations * **Machine learning:** Learning logical models from data and performing inductive reasoning

CADE-28 Overview

CADE-28 will feature a comprehensive lineup of invited talks, research presentations, tutorials, and workshops. The conference will cover a wide range of topics in automated deduction, including:

* Theorem proving * Model checking * Satisfiability solving * Quantified reasoning * Deductive databases * Automated planning * Machine learning and automated deduction

Keynote Speakers

CADE-28 will feature renowned keynote speakers from leading research institutions. These speakers will present cutting-edge research and insights into the future of automated deduction. The confirmed keynote speakers include:

* **Martin Davis (New York University)**: A pioneer in automated deduction and recipient of the Turing Award * **Nicolas de Castro (Sorbonne University)**: An expert in satisfiability solving and constraint programming * **Laura Kovacs (Ludwig-Maximilians-Universität München)**: A leading researcher in automated reasoning and model checking

Research Presentations and Workshops

CADE-28 will showcase the latest research in automated deduction. Researchers from all over the world will present their findings in areas such as:

* New automated deduction algorithms and techniques * Applications of automated deduction in various domains * Empirical evaluations of automated deduction systems * Theoretical foundations of automated deduction

In addition to the research presentations, CADE-28 will host several workshops on specialized topics, including:

* Automated deduction for artificial intelligence * Automated deduction for cybersecurity * Automated deduction for natural language processing * Automated deduction for verification and validation

Tutorials and Educational Events

CADE-28 will offer a series of tutorials and educational events designed to provide attendees with a deeper understanding of automated deduction. These events will cover topics ranging from the basics of logic and automated deduction to advanced techniques in theorem proving and model checking.

Call for Participation

Researchers and practitioners are invited to submit their research papers and workshop proposals to CADE-28. The submission deadline is April 15, 2021. All submissions will be peer-reviewed by a team of international experts.

Registration

Registration for CADE-28 is now open. Early bird registration rates are available until May 31, 2021. The conference will be held virtually, and attendees will be able to participate from anywhere in the world.

CADE-28 is the premier event for researchers and practitioners in automated deduction. The conference provides a unique platform for sharing knowledge, exchanging ideas, and shaping the future of this exciting field. With its renowned keynote speakers, high-quality research presentations, specialized workshops, and educational events, CADE-28 is a must-attend event for anyone interested in advancing the frontiers of logical reasoning and automated deduction.

For more information about CADE-28, please visit the conference website at https://cade28.org/.

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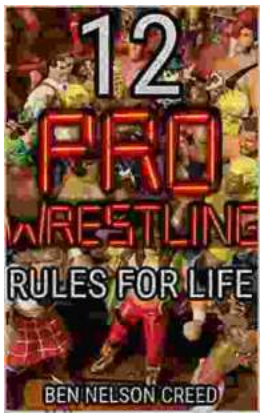

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