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Mathematical logic is essentially related to computer science. This

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book describes the aspects of mathematical logic that are closely related to each other, including classical logic, constructive logic, and modal logic. This book is intended to attend to both the peculiarities of logical systems and the requirements of computer science.

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This book teaches mathematical logic using tableaux techniques pioneered by Beth and Smullyan, which are simpler than the usual algebraic techniques, but quite sufficient to give CS students the theoretical tools they need. The book also discusses

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Application of logic to
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article 's first two

sections, there is a
discussion of the
interaction between
mathematical logic and
computer science. The
authors are four
eminent mathematical

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Logicians.

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If $A = A_1 \text{ op } A_2$ is a formula with a binary operator, then by the inductive hypothesis $v(A_1)$ and $v(A_2)$ are uniquely defined, so there is a single value that can be assigned to $v(A)$ according to the

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table. The case for negation is similar. Induction is also used to prove that assignments that agree on the atoms of a formula A agree on the formula.

~~Mathematical Logic for Computer Science~~

Since reasoning is involved in most intellectual activities, logic is relevant to a

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Mathematical range of pursuits. The study of logic is essential for students of computer science. It is also very valuable for mathematics students, and others who make use of mathematical proofs, for instance, linguistics students.

~~Why Logic is Important
for Computer Science
and Mathematics~~

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The journal publishes research papers and occasionally surveys or expositions on mathematical logic.

Contributions are also welcomed from other related areas, such as theoretical computer science or philosophy, as long as the methods of mathematical logic play a significant role. The journal therefore

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addresses logicians and mathematicians, computer scientists, and philosophers who are interested in the applications of mathematical logic in their own field, as well as its interactions with ...

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Logic plays a

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fundamental role in computer science. Some of the key areas of logic that are particularly significant are computability theory (formerly called recursion theory), modal logic and category theory. The theory of computation is based on concepts defined by logicians and mathematicians such as

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Alonzo Church and
Alan Turing.

~~Logic in computer
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tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand.

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a modern introduction
to the foundations of
logic, mathematics, and
computers science,
developing the theory

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of the expressive power of formal systems and the deductive power of formal proof systems.

~~Mathematical logic~~
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Mathematics and Computer Science can be studied for three years, leading to the award of a BA degree, or for four years, leading to the award of Master

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of Mathematics and
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