Mathematical logic for computer science

Ben-Ari, Mordecchai, 1948-, author

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Abstrak

Mathematical logic for computer science is a mathematics textbook with theorems and proofs. The method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand. The uniform use of tableaux-based techniques facilitates learning advanced logical systems based on what the student has learned from elementary systems.

The logical systems presented are propositional logic, first-order logic, resolution and its application to logic programming, Hoare logic for the verification of sequential programs, and linear temporal logic for the verification of concurrent programs.

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