

Mathematical Logic for Computer Science

Third Edition

Mordechai Ben-Ari

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Third Edition

 Springer

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Mathematical Logic for Computer Science is a mathematics textbook with theorems and proofs, but the science of logic has been guided by the needs of students of computer science. The method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand. The sections on tableaux-based techniques facilitate 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 applications to logic programming, Hoare logic for the verification of sequential programs, and linear temporal logic for the verification of concurrent programs.

The third edition has been entirely rewritten and includes new chapters on central topics of modern computer science: SAT solvers and model checking.

There are 100 exercises with answers available to qualified instructors.

Documented, open-source, Prolog source code for the algorithms is available at <http://code.google.com/p/mlc/>.

Mordechai Ben-Ari is with the Department of Science Teaching at the Weizmann Institute of Science. He is a Distinguished Educator of the ACM and has received the ACM/IEEE-CS Award for Outstanding Contributions to Computer Science Education. His other textbooks published by Springer are: *Ada for Software Engineers* (Second Edition) and *Principles of the Spin Model Checker*.

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