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Symbolic model checking for temporal-epistemic logic. (English) [Zbl 1356.68144](#)

Artikis, Alexander (ed.) et al., Logic programs, norms and action. Essays in honor of Marek J. Sergot on the occasion of his 60th birthday. Berlin: Springer (ISBN 978-3-642-29413-6/pbk). Lecture Notes in Computer Science 7360. Lecture Notes in Artificial Intelligence, 172-195 (2012).

Summary: We survey some of the recent work in verification via symbolic model checking of temporal-epistemic logic. Specifically, we discuss OBDD-based and SAT-based approaches for epistemic logic built on discrete and real-time branching time temporal logic. The underlying semantical model considered throughout is the one of interpreted system, suitably extended whenever necessary.

For the entire collection see [\[Zbl 1241.68007\]](#).

MSC:

- [68Q60](#) Specification and verification (program logics, model checking, etc.)
- [03B42](#) Logics of knowledge and belief (including belief change)
- [03B44](#) Temporal logic

Cited in **2** Documents

Software:

[CUDD](#); [MCK](#); [MCMAS](#); [NuSMV](#); [SPIN](#); [Verics](#)

Full Text: [DOI](#)