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A hidden agenda. (English) Zbl 0946.68070
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Summary: This paper publicly reveals, motivates, and surveys the results of an ambitious hidden agenda for applying algebra to software engineering. The paper reviews selected literature, introduces a new perspective on nondeterminism, and features powerful hidden coinduction techniques for proving behavioral properties of concurrent systems, especially refinements; some proofs are given using OBJ3. We also discuss where modularization, bisimulation, transition systems and combinations of the object, logic, constraint and functional paradigms fit into our hidden agenda.

Reviewer: [Reviewer \(Berlin\)](#)

MSC:

[68Q45](#) Formal languages and automata
[68Q85](#) Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)

Cited in **37** Documents

Keywords:

[algebraic specification](#); [coinduction](#); [correctness proofs](#); [object orientation](#); [concurrency](#)

Software:

[CafeOBJ](#); [OBJ3](#)

Full Text: [DOI](#)

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