

**Gabbay, Dov M.**

**What is negation as failure?** (English) [Zbl 1356.68031](#)

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, 52-78 (2012).

Summary: An equational approach is used to give semantics to negation as failure. We offer an equational calculus and in it we define a new completion for programs with negation as failure in the body of clauses. This approach is compared with other approaches in the literature and a connection is established with argumentation theory.

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

**MSC:**

[68N17](#) Logic programming

[68Q55](#) Semantics in the theory of computing

**Full Text:** [DOI](#)