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Heterogeneous logical environments for distributed specifications. (English) Zbl 1253.68231
Corradini, Andrea (ed.) et al., Recent trends in algebraic development techniques. 19th international workshop, WADT 2008, Pisa, Italy, June 13–16, 2008. Revised selected papers. Berlin: Springer (ISBN 978-3-642-03428-2/pbk). Lecture Notes in Computer Science 5486, 266–289 (2009).

Summary: We use the theory of institutions to capture the concept of a heterogeneous logical environment as a number of institutions linked by institution morphisms and comorphisms. We discuss heterogeneous specifications built in such environments, with inter-institutional specification morphisms based on both institution morphisms and comorphisms. We distinguish three kinds of heterogeneity: (1) specifications in logical environments with universal logic (2) heterogeneous specifications focused at a particular logic, and (3) heterogeneous specifications distributed over a number of logics.

For the entire collection see [\[Zbl 1173.68005\]](#).

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

MSC:

68Q65 Abstract data types; algebraic specification
03G30 Categorical logic, topoi

Cited in 4 Documents

Software:

[Hets](#); [Isabelle/HOL](#)

Full Text: [DOI](#)

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