

Hart, Bradd (ed.); Kucera, Thomas G. (ed.); Pillay, Anand (ed.); Scott, Philip J. (ed.); Seely, Robert A. G. (ed.)

Models, logics, and higher-dimensional categories: A tribute to the work of Mihály Makkai. Proceedings of a conference, CRM, Montréal, Canada, June 18–20, 2009. (English)

[Zbl 1243.03004](#)

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Makkai was undoubtedly one of the leading figures in the development of categorical logic, and his research interest ranged widely from categorical model theory to first-order logic with dependent sorts and higher-dimensional category theory. Correspondingly, the proceedings, intended as a tribute to the work of Makkai, consist of papers lying within the Golden Triangle whose three vertices are logic, category theory and computer science.

The articles of this volume will be reviewed individually.

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Reviewer: Hirokazu Nishimura (Tsukuba)

MSC:

03–06 Proceedings of conferences (mathematical logic)
03C45 Classification theory, stability etc. (model theory)
03C52 Properties of classes of models
03C90 Nonclassical models
03G30 Categorical logic, topoi
18C10 Theories, structure, and semantics
18D05 Double categories, 2-categories, bicategories and generalizations
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00B30 Festschriften

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Keywords:

countable model; model theory; categorical logic; higher-dimensional category theory; stack; pseudomonadicity; pretopos completion; purity; pure-injectivity; Dialectica monad; internality; Scott rank; special relativity; Lorentz category; compact complex manifold; bimeromorphic structure; coreduction; computational effect; additive category; Einstein's vacuum equation; synthetic differential geometry; pregroup; limit model; inaccessibles; groupoid; Martin-Löf's type theory; lax monoidal fibration

Biographic references:

Makkai, Mihály