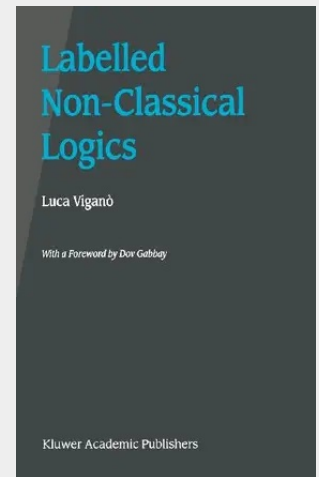


Labelled Non-Classical Logics

I am very happy to have this opportunity to introduce Luca Viganò's book on Labelled Non-Classical Logics. I put forward the methodology of labelled deductive systems to the participants of Logic Colloquium'90 (Labelled Deductive systems, a Position Paper, In J. Oikkonen and J. Vaananen, editors, Logic Colloquium '90, Volume 2 of Lecture Notes in Logic, pages 66-68, Springer, Berlin, 1993), in an attempt to bring labelling as a recognised and significant component of our logic culture. It was a response to earlier isolated uses of labels by various distinguished authors, as a means to achieve local proof theoretic goals. Labelling was used in many different areas such as resource labelling in relevance logics, prefix tableaux in modal logics, annotated logic programs in logic programming, proof tracing in truth maintenance systems, and various side annotations in higher-order proof theory, arithmetic and analysis. This widespread local use of labels was an indication of an underlying logical pattern, namely the simultaneous side-by-side manipulation of several kinds of logical information. It was clear that there was a need to establish the labelled deductive systems methodology. Modal logic is one major area where labelling can be developed quickly and systematically with a view of demonstrating its power and significant advantage. In modal logic the labels can play a double role.

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160,49 €
149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780792377498
Medium: Buch
ISBN: 978-0-7923-7749-8
Verlag: Humana
Erscheinungstermin: 31.01.2000
Sprache(n): Englisch
Auflage: 2000
Produktform: Gebunden
Gewicht: 1360 g
Seiten: 292
Format (B x H): 160 x 241 mm

