



# Nonmonotonic and Inductive Logic [ 1st International Workshop Karlsruhe, Germany, December 4-7, 1990 Proceedings /

Dix, J.

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Monografia

This proceedings volume contains revised and reviewed papers based on talks presented at the first International Workshop on Nonmonotonic and Inductive Logic held in Karlsruhe, December 1990. The workshop was supported by the Volkswagen-Stiftung, Hannover, and provided a forum for researchers from the two fields to communicate and find areas of cooperation. The papers are organized into sections on: - Nonmonotonicity in logic programs - Axiomatic approach to nonmonotonic reasoning - Inductive inference - Autoepistemic logic - Belief updates The bulk of the papers are devoted to nonmonotonic logic and provide an up-to-date view of the current state of research presented by leading experts in the field. A novelty in the contributions from the area of inductive logic is the analysis of nonmonotonicity in the theory of inductive learning

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**Contenido:** Cumulative inference relations for JTMS and logic programming -- Cumulativity and rationality in semantics of normal logic programs -- Nonmonotonic reasoning and logic programs -- Supracompact inference operations -- Notions of nonmonotonic derivability -- Ranges of strong modal nonmonotonic logics -- On

generation of cumulative inference operators by default deduction rules -- Qualitative magnitude reasoning -- Monotonic and non-monotonic inductive inference of functions and patterns -- A note on polynomial-time inference of k-variable pattern languages -- A thesis in inductive inference -- Inductive inference of optimal programs a survey and open problems -- Autoepistemic expansions with incomplete belief introspection -- Is it impossible to keep up to date?

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