

Mamdani, E. H.; Gaines, B. R.

Fuzzy reasoning and its applications. (English) Zbl 0488.03001

Computers and People Series. London etc.: Academic Press, a subsidiary of Harcourt Brace Jovanovich, Publishers. XVIII, 381 p. £12.60; \$ 30.50 (1981).

For a scan of this review see the [web version](#).

MSC:

03–06 Proceedings, conferences, collections, etc. pertaining to mathematical logic and foundations

Cited in 14 Documents

68–06 Proceedings, conferences, collections, etc. pertaining to computer science

03B52 Fuzzy logic; logic of vagueness

68T50 Natural language processing

03E72 Theory of fuzzy sets, etc.

94D05 Fuzzy sets and logic (in connection with information, communication, or circuits theory)

68P20 Information storage and retrieval of data

68Txx Artificial intelligence

Keywords:

fuzzy logic; fuzzy set; representation of meaning; linguistically oriented information systems; fuzzy representation of expert knowledge; process control; meaning representation language for natural languages; concept representation; artificial languages; Lukasiewicz logic; fuzzy reasoning; deductive verbal models of organizations; linguistic approximation; reasoning with uncertain facts and vague concepts; semantics of implication operators; fuzzy relational products; knowledge acquisition by encoding expert rules; computer induction from examples; soybean pathology; logical foundations for database systems; linguistic synthesis; fuzzy logic controller; industrial applications of fuzzy logic control; human decision-making in cement kiln control; automation