A Novel Approach for the Determination of Membership Values of the Strings in Fuzzy Languages

International Journal of Computer Applications
© 2014 by IJCA Journal

Volume 100 - Number 8
Year of Publication: 2014

Authors:
Rahul Kumar Singh
Ajay Kumar

10.5120/17548-8144
{bibtex}pxc3898144.bib{/bibtex}

Abstract

Classical automata theory can not deal with uncertainty. To deal with uncertainty in system modeling, fuzzy automata come into the existence. Fuzzy automaton depends on membership value. For finding the membership degree of strings in fuzzy automata, the concept of max – min automaton and min – max automaton can be used. Many researchers have used the concept of max – min automaton for finding the fuzzy languages. In this paper, the concept of min – max automaton for finding the membership degree of strings in fuzzy automata has been used.

References

A Novel Approach for the Determination of Membership Values of the Strings in Fuzzy Languages


Index Terms

Computer Science
Fuzzy Systems

Keywords
Nondeterministic fuzzy automata  Fuzzy automata  Min – max automata