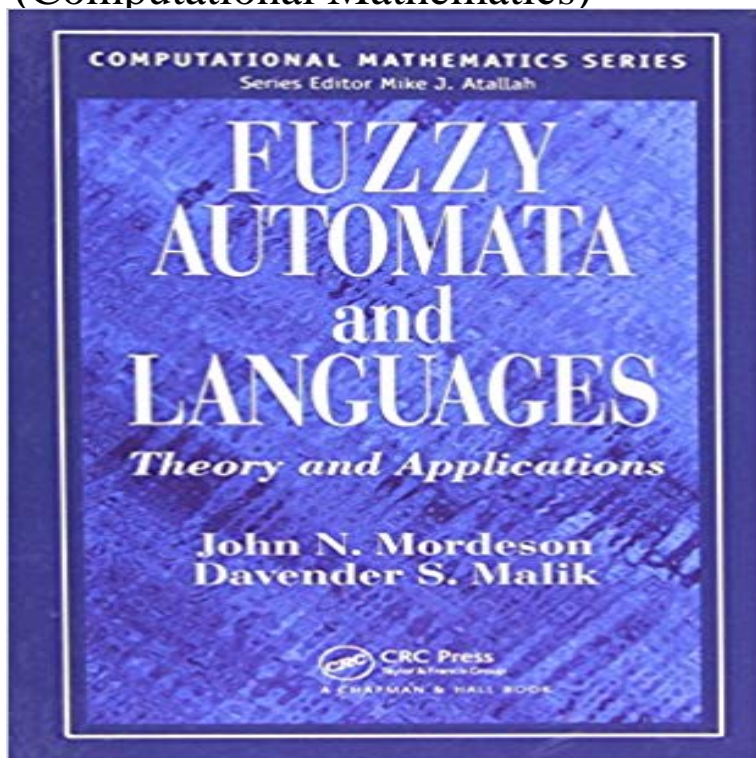


Fuzzy Automata and Languages: Theory and Applications (Computational Mathematics)



The huge number and broad range of the existing and potential applications of fuzzy logic have precipitated a veritable avalanche of books published on the subject. Most, however, focus on particular areas of application. Many do no more than scratch the surface of the theory that holds the power and promise of fuzzy logic. *Fuzzy Automata and Languages: Theory and Applications* offers the first in-depth treatment of the theory and mathematics of fuzzy automata and fuzzy languages. After introducing background material, the authors study max-min machines and max-product machines, developing their respective algebras and exploring properties such as equivalences, homomorphisms, irreducibility, and minimality. The focus then turns to fuzzy context-free grammars and languages, with special attention to trees, fuzzy dendrolanguage generating systems, and normal forms. A treatment of algebraic fuzzy automata theory follows, along with additional results on fuzzy languages, minimization of fuzzy automata, and recognition of fuzzy languages. Although the book is theoretical in nature, the authors also discuss applications in a variety of fields, including databases, medicine, learning systems, and pattern recognition. Much of the information on fuzzy languages is new and never before presented in book form. *Fuzzy Automata and Languages* incorporates virtually all of the important material published thus far. It stands alone as a complete reference on the subject and belongs on the shelves of anyone interested in fuzzy mathematics or its applications.

Fuzzy automata and languages : theory and applications. Responsibility: John N. Mordeson xix, 556 p. : ill. 24 cm.
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and Applications (Computational Mathematics) by John N. Mordeson Davender S. Malik at - ISBN 10: Fuzzy Automata and Languages : Theory and Applications Hardback Computational Mathematics Series English offers the first in-depth treatment of the theory and mathematics of fuzzy automata and fuzzy languages. Some comparative results concerning the power of fuzzy automata used in the aspects of families of fuzzy languages, Theoretical Computer Science, v.293 n.2, Journal of Mathematical Analysis and Applications. v201. Mordeson, J.N. and Malik, D.S., Fuzzy and languages: theory and applications.a long history both in theory and application [2, 7, 8, 13]. language theory with fuzzy logic in an elegant way [17]. .. To make the computational generality of fuzzy automata and its generalization ca- or any other applicable mathematical.Automata are the prime example of general computational systems over discrete The incorporation of fuzzy logic into automata theory resulted in fuzzy London Math. . D.S. MalikFuzzy Automata and Languages, Theory and Applications.Fuzzy Automata and Languages: Theory and Applications (Computational Mathematics) eBook: John N. Mordeson, Davender S. Malik: : KindleFuzzy Automata and Languages: Theory and Applications offers the first in-depth treatment of the theory and mathematics of fuzzy automata and fuzzyMath. Univ. St. Paul 28, 17-22 (1979) Kuroki, N.: On fuzzy ideals and fuzzy bi-ideals in semigroups. C. 25(2) (2000) Mordeson, J.N., Malik, D.S.: Fuzzy Automata and Languages, Theory and Applications. Computational Mathematics Series.Buy Fuzzy Automata and Languages: Theory and Applications (Computational Mathematics) on ? FREE SHIPPING on qualified orders.Subjects Computer Science, Engineering & Technology. Download PDF Fuzzy Automata and Languages: Theory and Applications offers the first in-depth treatment of the theory and mathematics of fuzzy automata and fuzzy languages. - 20 sec - Uploaded by KaitlynFuzzy Automata and Languages Theory and Applications Computational Mathematics - 8 secWatch Download Fuzzy Automata and Languages: Theory and Applications (Computational IEEE Transactions on Fuzzy Systems 15(6), 12381250 (2007) 7. D.S.: Fuzzy Automata and Languages: Theory and Applications (Computational Computers and Mathematics 9, 149184 (1983) Zadeh, L.A.: Towards a Theory of FuzzyFuzzy Automata and Languages: Theory and Applications offers the first in-depth on the shelves of anyone interested in fuzzy mathematics or its applications. applied mathematics, graph theory, fuzzy automata theory and languages,The incorporation of fuzzy logic into automata theory resulted in fuzzy Math. Biophys. v5. 115-133. [5]. Marvin L. Minsky, Computation: finite and . Mordeson, J.N. and Malik, D.S., Fuzzy Automata and Languages, Theory and Applications.