Abstract

Similarity of fuzzy pushdown automata in the sense of transition and output is algebraically embodied by their homomorphism as well as covering. This vary issue is studied in this paper. The ways of obtaining new fuzzy pushdown automata by means of their product is also introduced. Furthermore, we prove that product, homomorphism and covering of fuzzy pushdown automata are internally related. Several algebraic results of homomorphism and covering are also discussed in this paper.

References

- Cheng W., Mo Z., Minimization algorithm of fuzzy finite automata, Fuzzy Sets Syst., 141(3) (2004), 439-448

**Index Terms**

Computer Science

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**Keywords**

Fuzzy Automata  Fuzzy Pushdown Automata  Products  Covering  Homomorphism