In this paper, we introduce generalized directable fuzzy automaton and discuss their structural characterizations. We have shown that a generalized directable fuzzy automaton is an extension of a uniformly monogenically strongly directable fuzzy automaton by a uniformly monogenically trap-directable fuzzy automaton and obtain other equivalent conditions for a generalized directable fuzzy automaton.

Index Terms

Computer Science

Fuzzy Systems

Keywords

Necks & Local necks of a fuzzy automaton, Uniformly monogenically directable fuzzy automaton, generalized directable fuzzy automaton.