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Representation of Universal Planar Automata by Autonomous Input Signals

V. A. Molchanov

Saratov State University, Russia, 410012, Saratov, Astrahanskaya st., 83, v.molchanov@inbox.ru

Universal planar automata are universally attracted objects in the category of automata, whose sets of states and output signals are endowed with structures of planes. The main result of the paper shows that any universal planar automaton is isomorphic to a many-sorted algebraic system canonically constructed from autonomous input signals of the automaton.

Key words: automata, semigroups, planes, many-sorted algebraic systems.

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