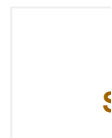


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# Irregular Cellular Learning Automata



2

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Cellular learning automaton (CLA) is a recently introduced model that combines cellular automaton (CA) and learning automaton (LA). The basic idea of CLA is to use LA to adjust the probability of stochastic CA. This model has been used to solve problems in assignment in cellular networks, call admission control, image processing, and integration placement. In this paper, an extension of CLA called irregular CLA (ICLA) is presented. This extension is obtained by removing the structure regularity assumption in the structure of CLA. ICLA is needed in some applications, such as computer network computing. The concept of expediency has been introduced for ICLA and the conditions under which an ICLA becomes expedient are analytically found.

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