

L-Systems

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Abstract

Developmental systems first introduced by Lindenmayer in 1968 to model the process of growing in multicellular filamentous organism such as fungi and algae. Initially defined as linear arrays of finite automata, L-systems were soon transformed into a grammar framework becoming a branch of formal language theory. This paper will cover the overall functionality and different types of L-systems exploring their potential uses followed by an examination of their properties such as decidability and complexity, as well as, their applications in various fields.

Citations

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