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**Monocultures and homogeneous environment in eco-grammar systems.** (English)

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Summary: Two special cases of eco-grammar systems are studied, namely the systems with identical agents, called monocultures and the systems with homogeneous environment characterized by a unary alphabet. The generative power of these eco-grammar systems, given by the languages of the environments, is discussed. Introduced special cases restrict the generative power of eco-grammar systems. Hierarchy or incomparability of language classes with respect to the degree of eco-grammar systems, given by the number of the agents, is shown for various cases of eco-grammar systems.

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**Keywords:**

eco-grammar system; monoculture; degree of an eco-grammar system; L-system; generative power

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