

Degrees of categoricity of computable structures

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Abstract

Defining the degree of categoricity of a computable structure M to be the least degree d for which M is d -computably categorical, we investigate which Turing degrees can be realized as degrees of categoricity. We show that for all n , degrees d . c. e. in and above $0(n)$ can be so realized, as can the degree $0(\omega)$. © 2009 Springer-Verlag.

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Keywords

Categoricity spectrum, Computability, Computable model theory, Computable structure, Degree of categoricity