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# Percolation, Pretopology and Complex Systems Modeling

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## Abstract

A complex system is generally regarded as being a network of elements in mutual interactions, which total behavior cannot be deduced from that of its parts and their properties. Thus, the study of a complex phenomenon requires a holistic approach considering the system in its totality. The aim of our approach is the design of a unifying theoretical framework to define complex systems according to their common properties and to tackle their modeling by generalizing percolation processes using pretopology theory.

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