

Modeling and Analysis: Emerging Behavior

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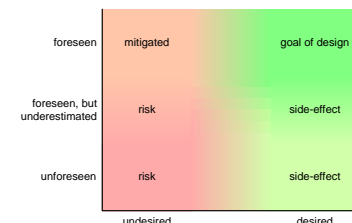
Abstract

The essence of a system is that the parts together can do more than the separate parts. The interaction of the parts results in behavior and properties that cannot be seen as belonging to individual parts. We call this type of behavior "emerging behavior".

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Emergence is Normal and Everywhere

emergent behavior and properties =

function of

dynamic interaction between

parts in the system and

context of the system

examples

- flying and stalling of an airplane
- Tacoma bridge resonance

Emergence, Desire, and Foreseeing

