

# Modeling and Analysis: Emerging Behavior

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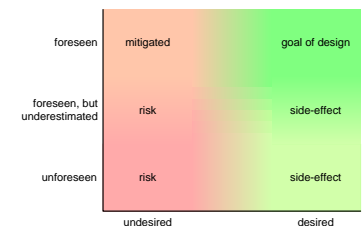
## Abstract

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

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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

