

Seminar in Interdisciplinary STEM Research

March 1, Friday, 1:00-2:00 PM

Location: ET A-126

HOSTED BY CREST CEAS AND PREM

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Complex systems: what makes them complex?



Scientific reductionism does not provide a sufficient explanation. To understand complex systems, one must identify distributed energy stores and their control through disproportionate causality. A particularly important form of disproportionate causality is that exercised by autonomous entities (*to be defined in the talk*) through the stigmergic exchange (*also defined in the talk*) of information. The talk also explores emergence, which is often seen as mysterious, but is better understood as physical, biological, and human invention or design. The whole often really is more than the sum of its parts.

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