

# Emergence and self-organization in partially ordered sets

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*Reported here is the discovery of a simple functional the optimization of which by a dynamical process results in extraordinary structural organization in partially ordered sets. Since partially ordered sets are one of the most prevalent and fundamental objects in Mathematics, and are ubiquitous in nature, physics, engineering and technology in general, and since any system amenable to mathematical analysis can be represented as a partially ordered set, the discovery is proposed as an explanation for the phenomena of emergence and self-organization in dynamical systems.*