

SOCIAL SPACETIME

A Geometric Model of Our Social World

Abstract

This paper introduces social spacetime, a continuous structured field in which social objects—such as people, resources, and contagions—exist, move, and interact. Social motion is governed by a small set of fundamental laws that create curvature, which limits the paths available across different social contexts. These laws explain how survival pressures, social influence, goal pursuit, moral values, and institutions jointly shape behavior through structural constraint rather than linear cause-and-effect. The framework models social dynamics geometrically, emphasizing how structure channels movement and limits options. Social instability and large-scale change occur through structural transitions, when local social fabrics fail and motion reverts to survival-dominated trajectories. By describing social life in geometric terms, social spacetime offers a unified framework for understanding stability, collapse, and reorganization across social systems.

Keywords: social structure, social motion, curvature, structural transitions, theoretical framework