

SOCIAL SPACETIME

A Geometric Model of Our Social World

Abstract

This paper introduces social spacetime, a continuous structured field in which social objects—people and contagions—exist, move, and interact. Motion is governed by a small set of fundamental laws that generate curvature, shaping and constraining trajectories across social contexts. These laws explain how survival pressures, accumulated social mass, goal-directed priorities, moral frameworks, and institutions jointly create structural constraints that guide behavior. The framework models social dynamics geometrically rather than as linear cause-and-effect, emphasizing how structure limits and channels possible paths. Social instability and large-scale change occur through structural transitions, when local social fabrics fail and motion reverts to survival-dominant 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,