

# The Relationship between Physics and Sociology: An Epistemological and Methodological Perspective

MD NASIM UDDIN

JAWAHARLAL NEHRU UNIVERSITY, NEW DELHI

## Abstract

Modern science is a methodical way to learn, unlike common knowledge. This study examines the deeper relationship between physics and sociology from an epistemic and methodological standpoint. Physics has evolved from early efforts to understand the environment to mathematical representations and complex physical interpretations. The Newtonian physics concept, which stressed the universe's intrinsic order revealed by observation and evidence, drove this transformation. Modern sociology seeks a methodical, empirical understanding of reality, like classical science. Its quantitative study of society is called "social physics," based on physics. The study compares physics and sociology's epistemologies, exploring empiricism, realism, and constructionist viewpoints in physics and positivism and interpretative methods in sociology. The paper compares rational choice theory to social science physics rules to show how physics is an archetype for science. Actor-network theory connects physics and social processes. Historical examples show how early sociologists, motivated by physics, established social statics and dynamics, making sociology a scientific subject. In sociology, Emile Durkheim's structural-functionalism and Talcott Parsons and Niklas Luhmann's social equilibrium theories use physics concepts. In conclusion, this work reveals the complex relationship between physics and sociology, increasing our comprehension of both sciences and their contributions to knowledge.

**Keywords:** *Sociology, Physics, Epistemology, Social physics*

## Introduction

In the modern day, science embodies a method of knowledge acquisition that is significantly more disciplined and methodical than the layperson. Science has gone through numerous painfully slow phases of development (Sjoberg & Nett, 1968). Physics has developed from an early endeavor by scientists to comprehend the operation of their immediate environment to a collection of mathematical descriptions and contradictory physical interpretations (Bill, 2014). A work of the modern era is social science. Its origins can be traced back to the ongoing, since the sixteenth century, effort to create systematic, secular knowledge about reality that is somehow supported by empirical evidence. For several decades now, the so-called classical view of science has been the prevailing one. It was founded on two tenets. One was the Newtonian physics model and Cartesian Dualism. The Newtonian physics model holds that the past and future are symmetrical. This was a quasi-theological vision in which everything coexists in an eternal present and we, like God, can achieve certainty. As a result, we need not distinguish between the past and the future (Wallerstein, 1996). Newton was interested in "facts" in the data of experience; the aim of

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**Thomas Boylan, Paschal O'Gorman**



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highlighted The integration of these techniques with classical biological methods is also addressed Furthermore the book presents statistical and chemometric methods for evaluation of the resultant data The broad spectrum of topics includes a vast variety of organisms samples and diseases ranging from in vivo metabolomics in humans and animals to in vitro analysis of tissue samples cultured cells and biofluids

*Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures* George Deodatis, Bruce R. Ellingwood, Dan M. Frangopol, 2014-02-10 Safety Reliability Risk and Life Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY ICOSSAR2013 New York NY USA 16 20 June 2013 This set of a book of abstracts and searchable full paper USB device is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures

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AIMSA 2014 held in Varna Bulgaria in September 2014 The 14 revised full papers and 9 short papers presented were carefully reviewed and selected from 53 submissions The range of topics is almost equally broad from traditional areas such as computer vision and natural language processing to emerging areas such as mining the behavior of Web based communities

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