



HYPOTHETICO-DEDUCTIVE METHOD: A COMPARATIVE ANALYSIS

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AUTHOR'S CONTRIBUTION

The sole author designed, analyzed and interpreted and prepared the manuscript.

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ABSTRACT

Purpose: This paper presents the analysis of hypothetico-deductive method and its applications in different domains.

Design/Methodology/Approach: The author explains hypothetico-deductive method various phases and steps to analyze the areas of improvement.

Research Limitations/Implications: The study is limited to supplementary parts of the model due to the broad scope of implementation.

Originality/Value: This paper will help to build up the understanding of the hypothetico-deductive model and basics steps to implement it correctly.

Keywords: Hypothetico-deductive; experiments; research; scientific methods.

1. INTRODUCTION

Science is based on many different pillars that combine to provide the methods of reasoning, logic, and ethics to conduct research. Based on the research methods the foundation of all the research is scientific reasoning. It varies with different nature of disciplines and based on four basic foundations pulling together the idea of scientific reasoning.

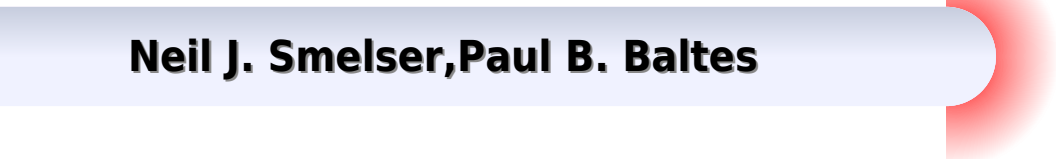
- The initial basis of research is the foundation. It is a natural phenomenon for a researcher to start looking for a solution based on scientific questions and hypotheses. The theories observations will be tested against the data collected through observations.

- The possible reasons behind any phenomenon are based on law of nature. There are several different scientific reasoning processes to find out a solution for a research problem through hypothesis. The theory is broken down into small different parts or problems to find out a valid hypothesis [1].
- The results are needed to be predicted for the research based on the outcome of the experiment. Most of the time based on the alternative hypothesis. The predictions of the theory are tested rather than theory to find out if the predictions are incorrect. Depending on the results theory, is accepted or refined.
- The applied part of research is data that is important to conduct research in the real world

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Hypothetico Deductive Method A Comparative Analysis

Neil J. Smelser, Paul B. Baltes



Hypothetico Deductive Method A Comparative Analysis:

Research Methods Michael Hammond, Jerry J. Wellington, 2013 This invaluable resource provides a comprehensive overview of the many methods and methodologies of social research Each entry provides a critical definition and examines the value and difficulties of a particular method or methodology of concept across different fields of social research Concepts include Action research Chaos theory Discourse analysis Epistemology Literature review Interviewing Social constructivism World view With thematic further reading stretching across the social sciences Research Methods The Key Concepts will help readers develop a firm understanding of the rationale and principles behind key research methods and is a must have for new researchers at all levels from undergraduate to postgraduate and beyond **Doing Research on Crime and Justice** Roy King, Emma Wincup, 2008 Focusing on the problems that novice researchers encounter when translating neat and tidy textbook methodologies into real life situations this guide explains how to undertake research in the fields of criminology and criminal justice Political Research Sandra Halperin, Oliver Heath, 2017 This title equips students of politics and international relations with the analytical skills and resources to evaluate understand and criticise research findings in political research as well as the practical skills to carry out their own research The Sage Handbook of Qualitative Research Quality Uwe Flick, 2024-12-12 This Sage Handbook presents an interdisciplinary collection of chapters exploring how to assess the quality of collecting and analysing qualitative data while maintaining a focus on diversity digital and critical approaches The Handbook considers essential questions such as what is good qualitative research What makes qualitative research good research And how can we make qualitative research better research Contributions come from a wide array of experts and highlight answers to questions from various disciplinary and geographical areas from mixed methods to multimodal and online research from specific types of data and methods to specific target groups and from theoretical and epistemological contexts to those where funding has an impact on how research is done and assessed Qualitative research has evolved in many respects in recent decades and has grown increasingly multidisciplinary Research in general is facing new challenges around how to take diversity and decolonisation into account in what researchers do as well as how to produce and communicate qualitative research quality This Handbook offers a timely overview of such developments and will support researchers involved in planning designing doing and evaluating qualitative research in developing an increased sensitivity for contemporary debates and challenges in the field Part I Philosophies and Epistemologies of Qualitative Research Quality Part II Disciplinary Discourses of Qualitative Research Quality Part III Qualitative Research Quality for Specific Approaches Part IV Rethinking Qualitative Research Quality for Specific Methods and Data Part V Rethinking Strategies for Quality in Qualitative Research Part VI Rethinking Criteria for Quality in Qualitative Research Part VII Extending Contexts and Challenges for Qualitative Research Quality Hunting Causes and Using Them Nancy Cartwright, 2007-05-31 Hunting Causes and Using Them argues that causation is not one thing as

commonly assumed but many There is a huge variety of causal relations each with different characterizing features different methods for discovery and different uses to which it can be put In this collection of new and previously published essays Nancy Cartwright provides a critical survey of philosophical and economic literature on causality with a special focus on the currently fashionable Bayes nets and invariance methods and it exposes a huge gap in that literature Almost every account treats either exclusively how to hunt causes or how to use them But where is the bridge between It s no good knowing how to warrant a causal claim if we don t know what we can do with that claim once we have it This book will interest philosophers economists and social scientists *Social History* Miles Fairburn,1999-05-26 Drawing examples from some of the classic works in the discipline Miles Fairburn examines the nature varieties schools and evolution of social history Intended for advanced students and practising social historians who see social history as a problem solving discipline the methodological problems examined include the absence of social categories fragmenting evidence the appraisal of rival explanations the use of socially constructed evidence to substantiate claims about realities how to avoid presentism and when its practice is justifiable how to distinguish important causes and how to tell similarities from differences [Music and Knowledge: A Performer's Perspective](#) Per Dahl,2019-02-18 FREELY AVAILABLE ONLINE AS OPEN ACCESS BOOK This book illustrates the acquisition of knowledge in a musician s performative practice and how this can contribute to the development of Artistic Research Using a broad understanding of knowledge the first part of the book presents aspects of the practitioner knowledge a musician develops through daily exercises and performances Technical and practical skills creativity and music reading are central topics Part II describes four different methodologies of knowledge accumulation First is the hypothetico deductive method music as object Then the author asks Where is the musical work After an introduction to semiotics the question that must follow is Is music a language Following up methodologies focusing on intersubjective and contextual topics the presentation of hermeneutics generates the question What happens to the music when you are listening Being the most subjective phenomenology is the last methodology to be presented The question it poses is Are analysis and interpretation two sides of the same coin Artistic research is a new perspective in knowledge acquisition and the performing artist is the pivot point The obvious insight positioning music beyond the score is elaborated into a critique of the representational theory as a relevant ontological discourse in music As an alternative the potential in embodied meaning theories is discussed through cognitive linguistic and artistic approaches Artistic expressions convey the subjective practitioner knowledge based on the difference between the objective sign and the intersubjective expression This makes music as communication the ultimate topic In conclusion understanding the meaning construction and the conditions of artistic content are both of importance in artistic research *Encyclopedia of Ecology* Brian D. Fath,2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as

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