Alternative Research Paradigms in Operations

JACK R. MEREDITH*
AMITABH RATURI*
KWASI AMOAKO-GYAMPAH*
BONNIE KAPLAN**

EXECUTIVE SUMMARY

Due to the heritage and history of operations management, its research methodologies have been confined mainly to that of quantitative modeling and, on occasion, statistical analysis. The field has been changing dramatically in recent years. Firms now face numerous worldwide competitive challenges, many of which require major improvements in the operations function. Yet, the research methodologies in operations have largely remained stagnant. The paradigm on which these methodologies are based, while useful, limits the kinds of questions researchers can address.

This paper presents a review and critique of the research in operations, itemizing the shortcomings identified by researchers in the field. These researchers suggest a new research agenda with an integrative view of operations' role in organizations, a wider application of alternative research methodologies, greater emphasis on benefit to the operations manager cross-disciplinary research with other functional areas, a heavier emphasis on sociotechnical analysis over the entire production system, and empirical field studies. Some of the alternative research methodologies mentioned include longitudinal studies, field experiments, action research, and field studies.

Following a description of the nature of research, three stages in the research cycle are identified description, explanation, and testing. Although research can deal with any stage in this cycle, the majority of attention currently seems to focus on the explanation stage. The paper then discusses historical trends in the philosophy of science, starting with positivism, expanding into empiricism, and then leading to post-positivism. The impacts of each of these trends on research in operations (which remains largely in the positivist mode) are described. Discussion of the importance of a plurality of research methods concludes the section.

A framework for research paradigms is then developed based on two key dimensions of research methodologies: the rational versus existential structure of the research process and the natural versus artificial basis for the information used in the research. These dimensions are then further explored in terms of thirteen characteristic measures. Next, research methodologies commonly used in other fields as well as operations are described in reference to this framework. Methodologies include those traditional to operations such as normative and descriptive modeling, simulation, surveys, case and field studies as well as those more common to other fields such as action research, historical analysis, expert panels, scenarios, interviewing, introspection, and hermeneutics. Examples from operations or allied fields are given to illustrate the methodologies.

Past research publications in operations are plotted on the framework to see the limitations of our current paradigms relative to the richness of other fields. We find that operations methodologies tend to

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"University of Cincinnati, Cincinnati, Ott 45221-0130

** American University. Washington, D.C. 20006

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Telecommunications Update, Valuing People and Technology in the Workplace: A Competitive Advantage Framework Hughes, Claretha, 2012-03-31 Valuing People and Technology in the Workplace A Competitive Advantage Framework introduces a more proactive strategic approach to bring employees into and develop them within an organization Interpreting and accepting this concept requires managers to think of employees as they would think of technology Technology equipment and systems are strategically aligned within organizations Integrating the literature from strategic technology management strategic human resource management and human resource development and exploring how this integration can provide competitive advantage to organizations for better implementation of people and technology development initiatives is a potential solution Valuing People and Technology in the Workplace A Competitive Advantage Framework provides a comprehensive framework that can be used to develop and design case studies that could measure the identified values that people technology and strategy can provide to the organization This book aims to serve as a guide for managers and leaders as they develop strategies to introduce new people and technology into the workplace **Transitions in Organizational Life** Blake Ashforth, 2000-10-01 Identity based approaches to understanding thoughts feelings and actions in organizations have produced particularly in recent years an array of rich insights that have broadened the domain of organizational behavior This book brings these insights together in one complete source and uses them collectively to stretch further the boundaries of the discipline Blake Ashforth accomplishes this goal by creating new ways of viewing the many forms of role transitions evident in organizational life He looks at role transitions people make during the workday i e from spouse parent to employee and studies the identity and status issues faced This unique authored book also creatively accomplishes two scholarly objectives First it provides a needed review critique and integration of what is known about being socially defined in an organizational context and second it provides fresh and intriguing perspectives on the dynamics of role engagement and disengagement both within and between organizations This book will appeal to psychologists managers and lifespan development researchers interested in the transitions people make as they go through life Board Members and Management Consultants Pierre-Yves Gomez, Rickie Moore, 2009-03-01 Boards and Management Consultants the eighth volume in the Research in Management Consulting series explores the growing complexity associated with the growing demands on boards of directors and the challenges raised by evolving expectations of what constitutes good governance As a way of better understanding the ramifications for management consulting particular and timely emphasis is placed on the evolution of expectations and needs in relation to boards and their operation. The chapter authors as noted above a truly international group of experts more than succeed in raising the reader's awareness of the consequences that the evolving nature of corporate boards are having on the function of directors how this function is being redefined by the players themselves and what all of this change means for consultants and the realm of management consulting Significant

questions are raised and explored throughout the volume from the extent to which these changes will lead to new social moral ethical and professional challenges and opportunities to how the relationships between consultants and their traditional clients managers administrators and employees might evolve As management consultants become more actively involved in governance issues their role will clearly change but will such changes enhance or constrain the role they have traditionally played in organizations Human Services and the Afrocentric Paradigm Jerome Schiele, Jerome H Schiele.2013-09-13 Discover how human services professionals can help to eliminate cultural oppression Human Services and the Afrocentric Paradigm presents a new way of understanding human behavior attacking social problems and exploring social issues This excellent guide shows that understanding the simultaneous forces of oppression and spiritual alienation in American society serves as a foundation for understanding the societal problems here The first book to offer a comprehensive exposition of how the Afrocentric paradigm can be used by human service professionals and community advocates Human Services and the Afrocentric Paradigm discusses why and how human service work is hampered by Eurocentric cultural values and will help you to offer fair and effective services to your clients Human Services and the Afrocentric Paradigm provides you with a concrete discription of how the Afrocentric model can be applied in human services to help people of all races and ethnicities You will expand and diversify your knowledge base in human services by understanding the cultural values traditions and experiences of people of African ancestry Some of the issues and concepts in the Afrocentric paradigm that you will explore are defining the Afrocentric worldview complete with a discussion of its philosophical assumptions and its shortcomings understanding traditional helping assumptions and methods of West African societies and how these have influenced the helping strategies of African Americans exploring the strengths and weaknesses of some early African American human service scholars with special concern placed on their rejection of traditional African methods in favor of Eurocentric ideas resolving youth violence and helping people with substance abuse problems examining Afrocentric assumptions about resource distribution morality and societal relationships identifying organizational and conceptual differences in Eurocentric and Afrocentric paradigms creating organizational empowerment and an enhanced work environment via the Afrocentric paradigmHuman Services and the Afrocentric Paradigm will help you understand solve and prevent problems that are confronted by several races especially individuals of African descent This timely and relevant worldview is thoroughly explained to assist you in better serving people of color The Afrocentric paradigm will help human services practitioners administrators policy advocates analysts educators and black studies professors and students achieve educational and treatment objectives by showing you the importance of various cultural values and how to integrate them to make a difference History and Systems of Psychology James F. Brennan, Keith A. Houde, 2022-11-17 The Eighth Edition of this classic textbook connects the rich story of psychology s past to contemporary research and practice **Psychology** Don H. Hockenbury, Sandra E. Hockenbury, 2002-07-19 New edition of the Hockenburys text which draws on their extensive

teaching and writing experiences to speak directly to students who are new to psychology Validation in Language Assessment Antony John Kunnan, 2013-04-03 Validation in Language Assessment contributes to the variety of validation approaches and analytical and interpretive techniques only recently adopted by language assessment researchers Featuring selected papers from the 17th Language Testing Research Colloquium the volume presents diverse approaches with an international perspective on validation in language assessment Between Communication and Information Brent Ruben, 2017-09-29 The current popularity of such phrases as information age and information society suggests that links between information communication and behavior have become closer and more complex in a technology dominated culture Social scientists have adopted an integrated approach to these concepts opening up new theoretical perspectives on the media social psychology personal relationships group process international diplomacy and consumer behavior Between Communication and Information maps out a richly interdisciplinary approach to this development offering innovative research and advancing our understanding of integrative frameworks This fourth volume in the series reflects recently established lines of research as well as the continuing interest in basic areas of communications theory and practice In Part I contributors explore the junction between communication and information from various theoretical perspectives delving into the multilayered relationship between the two phenomena Cross disciplinary approaches in the fields of etymology and library science are presented in the second section Part III brings together case studies that examine the interaction of information and communication at individual and group levels information exchanges between doctors and patients children and computers journalists and electronic news sources are analyzed in depth The concluding segment focuses on large social contexts in which the interaction of communication and information affects the evolution of institutions and culture Between Information and Communication both extends and challenges current thinking on the mutually supporting interplay of information and human behavior It will be of interest to sociologists media analysts and communication specialists The Big Three in Economics Mark Skousen, 2007 History comes alive in this fascinating story of opposing views that continue to play a fundamental role in today s politics and economics The Big Three in Economics traces the turbulent lives and battle of ideas of the three most influential economists in world history Adam Smith representing laissez faire Karl Marx reflecting the radical socialist model and John Maynard Keynes symbolizing big government and the welfare state Economy, **Environment and Technology: A Socioeconomic Approach** Beat Burgenmeier, 2016-09-16 A study of local government and politics in China exploring when and why local government officials comply with policy directives from above The author draws on interviews with government officials in various municipalities and a review of county records and other government Paradigms in Theory Construction Luciano L'Abate, 2011-12-01 Within the field of psychology there is a documents proliferation of paradigms theories models and dimensions without an underlying conceptual framework or theory This conclusion has been reached by representatives of many different psychological specialties. In response to this inconsistency

this book presents a hierarchical framework about important theoretical issues that are present in psychological thinking These issues concern definitions of three major theoretical concepts in theory and practice a paradigms b theories and c models It focuses on defining comparing and contrasting these three conceptual terms This framework clarifies differences among paradigms theories and models terms which have become increasingly confused in the psychological literature Paradigms are usually confused with theories or with models while theories are confused with models Examples of misuses of these terms suggest the need for a hierarchical structure that views paradigms as conceptual constructions overseeing a **Interactive Technology and the New Paradigm for** variety of psychological theories and verifiable models **Healthcare** Richard M. Satava, Karen Morgan, Hans B. Sieburg, 1995 This work contains the state of the art in Virtual Reality as applied to Medicine Interactive technology used in many research and development programs can be applied to health care by involving robotics computer vision simulation artificial intelligence image manipulation and storage data gloves man machine interfaces etc The Health Telematics Application Program for example is advancing virtual reality and enabling technologies simulation visualization and robotics in health care services for patients the elderly and persons with disabilities This book addresses the following items from the end user's perspective technology transfer telerobotics telemedicine education and training and virtual reality the book would be useful for those researching interactive technologies in health care especially virtual reality. It would be also of interest to people who want to keep abreast of the latest developments in techno medical research Rod Elford Telemedicine Centre Memorial University St John s Newfoundland Canada Journal of Telemedicine and Telecare volume 2 no 3 1996 p 178 Covered by Current Contents Life Sciences ISI volume 38 no 34 August **Resources in Education** ,1992 Handbook of Japan-United States Environment-Behavior 1995 p 11 13 Research Jack Demick, T. Takahashi, Seymour Wapner, C. Takiji Yamamoto, 2013-11-11 This volume is an outgrowth of research on the relations between human beings and their environments which has developed internationally This development is evident in environment behavior research studies conducted in countries other than the United States See Stokols and Altman 1987 for examples of such work in Australia Japan France Germany the Netherlands Sweden the United King dom the former Soviet Union and Latin and North America The international development of this research area is also evident in the establishment of profes sional organizations in different countries such as the Environment Behavior De sign Research Association EDRA in the United States the Man Environment Research Association MERA in Japan the International Association for People En vironment Studies lAPS in Great Britain and the People and Physical Environment Research Association PAPER in Australia This volume focuses on environment behavior research within Japan and the United States as well as cross cultural studies involving both countries As we note in detail in Chapter 1 the conference on which the work presented herein is based was preceded by three Japan United States conferences on environment behavior research the first of which took place in Tokyo in 1980 As currently conceived the present volume stands alone as a compendium of a

Significant proportion of cross cultural research on environment behavior relations in Japan and the United States that has been developing over the last 15 years As such we envision the volume as a basic interdisciplinary reference for anthropolgists archi tects psychologists SOCiologists urban planners and environmental geographers Paradigm Institute for Information Studies (Falls Church, Va.),1997 Stretch Intensity and the Inflammatory Response: A Paradigm Shift Nikos C. Apostolopoulos, 2018-12-27 In this manuscript practitioners and students who are concerned with sports and rehabilitation medicine kinesiology as well as coaches and athletes are introduced to numerous concepts including mechanotransduction inflammation pro and anti inflammatory cytokines calpains the extracellular matrix neutrophils and macrophages and their relevance to stretching particularly stretching intensity Although the quantitative parameters of training duration and frequency are important it is the qualitative criterion of intensity how much that the author suggests is ultimately of greater concern Intensity the rate and magnitude of force may be responsible for the proper recovery regeneration and adaptation of the musculoskeletal tissues from training competition or rehabilitation from injuries Research suggests that too much force results in the stimulation of an inflammatory response one associated with a biochemical feedback emerging from a mechanical stimulus The intent of this manuscript is twofold to initiate the discussion of the importance of stretching intensity with regard to proper recovery regeneration and adaptation and to suggest that researchers need to explore its potential role in addressing numerous inflammatory RA and non inflammatory OA recurrent tendinitis etc musculoskeletal conditions as well Environmental Sociology Michael D. Mehta, Eric Ouellet, 1995 New Model of Religious Conversion Ines W. Jindra, 2014-02-06 Based on the analysis of 52 conversion narratives to various religious groups A New Model of Religious Conversion utilizes case studies for comparison of converts backgrounds network influence and conversion narratives. The author convincingly illustrates a fit between the converts background and the religion they convert to such as between disorganized family backgrounds and highly structured religions Conversely those from highly structured backgrounds often convert to more open groups The book also makes it clear that not all conversions are influenced by networks or align themselves with a social constructivist view of a conversion as an account Taking converts trajectories seriously the author makes a strong case for the application of biographical sociology to the study of conversion and American sociology overall Single-system Designs in the Social Services Martin Bloom, 1993 This new book explores basic issues in the use of single system designs by practitioners in field settings Single System Designs in the Social Services addresses current methodological and practice issues involving single system designs SSDs It reviews the history of SSDs and discusses future issues and options in the evaluation of practice in social service settings using SSDs The book provides an intellectual frame of reference to understand the place of SSDs in contemporary social work practice and examines the application of SSDs to nonbehavioral methods of practice the use of SSDs in family practice the connection of SSDs and computers and criticism and response regarding SSDs While single system designs are easy to use in many kinds

of client situations their use also raises many important issues Chapters in this book address such issues and provide tentative suggestions to resolve them by answering such questions as What are the ethical principles for using single system designs with clients How can the parallel revolution in high technology be connected to single system designs Do graduates of schools of social work actually use these methods after graduation Are there practical short cuts to using these modes of evaluation How applicable are single system designs to non behaviorally oriented practitioners How can single system designs be applied to families Social work educators are mandated by their accrediting organizations to teach students to evaluate their own practice This book addresses the tough issues in fulfilling that mandate through instruction in single system designs discussing topics often not covered in depth by textbooks Social work practitioners researchers and educators in applied social science such as social work and clinical psychology will find this a valuable book to help them sort out the myriad issues surrounding the use of single system designs

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