

Evaluation of the Information Systems Research Framework: Empirical Evidence from a Design Science Research Project

Stefan Cronholm and Hannes Göbel

University of Borås, Sweden

stefan.cronholm@hb.se

hannes.gobel@hb.se

Abstract: The purpose of this paper is to provide empirical evidence that the design science framework Information System Research (ISR) works in practice. More than ten years has passed since ISR was published in the well-cited article 'Design Science in Information Systems Research'. However, there is no thoroughly documented evaluation of ISR based on primary data. That is, existing evaluations are based on reconstructions of prior studies conducted for other purposes. To use an existing data set to answer new or extended research questions means to conduct a secondary analysis. We point to several risks related to secondary analyses and claim that popular design science research frameworks should be based on primary data. In this paper, we present an evaluation consisting of empirical experiences based on primary data. We have systematically collected experiences from a three-year research project and we present findings of both strengths and weaknesses are presented. The main strengths are: the bridging of the contextual environment with the design science activities and the rigorously testing of IT artefacts. The main weaknesses are: imbalance in support for making contributions to both theory and practice, and ambiguity concerning the practitioners' role in design and evaluation of artefacts. We claim that the identified weaknesses can be used for further development of frameworks or methods concerning design science research.

Keywords: design science, design science research, evaluation, empirical validation, secondary analysis, primary data.

1. Introduction

Design science research (DSR) is widespread and often viewed as the dominant paradigm in the discipline of information systems (IS) (e.g. Iivari, 2007; Baskerville et al., 2009; Gregor and Hevner, 2013). One reason for this popularity is that there has been a growing interest in IS research as design research (e.g. March and Smith, 1995; Markus et al., 2002; Hevner, 2007; Peffers et al., 2008; Sein et al., 2011; Gregor and Hevner, 2013). DSR has roots in the science of the artificial and constitutes a problem-solving paradigm that seeks to create innovations (Simon, 1996). The DSR approach emphasises IT as the core of IS and challenges the managerial and organisational issues that have been in focus within the IS discipline for many years (Orlikowski et al., 2001). One purpose of DSR is to guide design and evaluation of IT artefacts (Hevner et al., 2004; Sein et al., 2011). Another purpose is to reduce the gap between responding to the need of practitioners and research rigor (Gallupe, 2007). According to Iivari (2007), DSR has been practiced in the IS discipline for decades and many scholars have contributed to the development of DSR (e.g. Walls et al., 1992; March and Smith, 1995; Markus et al., 2002; Hevner et al., 2004; Hevner, 2007; Iivari, 2007; Gregor and Jones, 2007; Vaishnavi and Kuechler, 2007; Peffers et al., 2008; Sein et al., 2011; Gregor and Hevner, 2013).

The purpose of this paper is to empirically evaluate the DSR framework Information System Research (ISR) (Hevner et al. 2004; Hevner 2007) based on primary data. With more than 7 000 citations ISR is the most well cited DSR publication in the IS discipline. No doubt, ISR has had a huge impact on DSR, not only in terms of usage, but also in terms of suggestions for improvements and extensions (e.g. Vaishnavi and Kuechler, 2007; Peffers et al., 2008; Sein et al. 2011). Despite the popularity of ISR, it lacks empirical evidence based on primary data. The empirical evidence of ISR provided by Hevner et al. (2004) is based on reconstructions of three prior studies conducted for other purposes. Our criticism is supported by the authors' own words "To illustrate the application of the design-science guidelines to IS research, we have selected three exemplar articles for analysis from three different IS journals, one from Decision Support Systems, one from Information Systems Research, and one from MIS Quarterly." (Hevner et al., 2004, p. 90). We view this way of evaluating ISR as pragmatic since to include a full empirical evaluation based on primary data would probably not be possible due to the formal restrictions such as page limit. However, a rigorous evaluation of ISR based on primary data is not conducted.

To draw conclusions based on data collected for other purposes requires a number of methodological considerations. To use an existing data set, such as previous studies, to answer new or extended research

Key Papers In The Design And Evaluation Of Information Systems

Lauren Gardner



Key Papers In The Design And Evaluation Of Information Systems:

Getting the books **Key Papers In The Design And Evaluation Of Information Systems** now is not type of inspiring means. You could not single-handedly going later than ebook stock or library or borrowing from your contacts to entrance them. This is an agreed easy means to specifically acquire lead by on-line. This online publication **Key Papers In The Design And Evaluation Of Information Systems** can be one of the options to accompany you bearing in mind having further time.

It will not waste your time. give a positive response me, the e-book will entirely expose you further issue to read. Just invest little time to get into this on-line statement **Key Papers In The Design And Evaluation Of Information Systems** as capably as evaluation them wherever you are now.

<https://kmsbrunchlive.gobrunch.com/public/Resources/HomePages/Upmspholiday%20List%202015.pdf>

Table of Contents Key Papers In The Design And Evaluation Of Information Systems

1. Understanding the eBook Key Papers In The Design And Evaluation Of Information Systems
 - The Rise of Digital Reading Key Papers In The Design And Evaluation Of Information Systems
 - Advantages of eBooks Over Traditional Books
2. Identifying Key Papers In The Design And Evaluation Of Information Systems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Key Papers In The Design And Evaluation Of Information Systems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Key Papers In The Design And Evaluation Of Information Systems
 - Personalized Recommendations
 - Key Papers In The Design And Evaluation Of Information Systems User Reviews and Ratings
 - Key Papers In The Design And Evaluation Of Information Systems and Bestseller Lists

5. Accessing Key Papers In The Design And Evaluation Of Information Systems Free and Paid eBooks
 - Key Papers In The Design And Evaluation Of Information Systems Public Domain eBooks
 - Key Papers In The Design And Evaluation Of Information Systems eBook Subscription Services
 - Key Papers In The Design And Evaluation Of Information Systems Budget-Friendly Options
6. Navigating Key Papers In The Design And Evaluation Of Information Systems eBook Formats
 - ePub, PDF, MOBI, and More
 - Key Papers In The Design And Evaluation Of Information Systems Compatibility with Devices
 - Key Papers In The Design And Evaluation Of Information Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Key Papers In The Design And Evaluation Of Information Systems
 - Highlighting and Note-Taking Key Papers In The Design And Evaluation Of Information Systems
 - Interactive Elements Key Papers In The Design And Evaluation Of Information Systems
8. Staying Engaged with Key Papers In The Design And Evaluation Of Information Systems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Key Papers In The Design And Evaluation Of Information Systems
9. Balancing eBooks and Physical Books Key Papers In The Design And Evaluation Of Information Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Key Papers In The Design And Evaluation Of Information Systems
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Key Papers In The Design And Evaluation Of Information Systems
 - Setting Reading Goals Key Papers In The Design And Evaluation Of Information Systems
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Key Papers In The Design And Evaluation Of Information Systems
 - Fact-Checking eBook Content of Key Papers In The Design And Evaluation Of Information Systems
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Key Papers In The Design And Evaluation Of Information Systems Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Key Papers In The Design And Evaluation Of Information Systems PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational

resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Key Papers In The Design And Evaluation Of Information Systems PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Key Papers In The Design And Evaluation Of Information Systems free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Key Papers In The Design And Evaluation Of Information Systems Books

What is a Key Papers In The Design And Evaluation Of Information Systems PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Key Papers In The Design And Evaluation Of Information Systems PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. **Print to PDF:** Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. **Online converters:** There are various online tools that can convert different file types to PDF. **How do I edit a Key Papers In The Design And Evaluation Of Information Systems PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Key Papers In The Design And Evaluation Of Information Systems PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobat's export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Key Papers In The Design And Evaluation Of Information Systems PDF?** Most PDF editing

software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Key Papers In The Design And Evaluation Of Information Systems :

[upmspholiday list 2015](#)

[how to legally obtain a second citizenship and passport and why you want to](#)

[nature vs nurture research paper](#)

user manual sverker 750

[instructors resource kit to accompany microsoft office 2000](#)

[science research report format](#)

20key stage 1 marking scheme moving house

osha roofing safety manual

97 mitsubishi mirage owners manual

lamborghini tractor 874 90 repair manual uk

[elasticity tensor dyadic and engineering approaches nicholas j pagano](#)

[panasonic dmp bd75 remote codes](#)

envy of the world on being a black man in america

manual alcohol filtering

zenith xbv342 manual

Key Papers In The Design And Evaluation Of Information Systems :

Factors Doctoral Candidates Attribute to their Persistence Hearing their Voices: Factors Doctoral Candidates Attribute to their Persistence ... The study aims to examine the views of doctorate students and graduate ... Factors Doctoral Candidates Attribute to their Persistence by LS Spaulding · Cited by 424 — Hearing their Voices: Factors Doctoral Candidates Attribute to their Persistence. Lucinda S. Spaulding, Amanda Rockinson-Szapkiw. "Hearing their voices: Factors doctoral candidates attribute ... by LS Spaulding · 2012 · Cited by 424 — These findings provide a composite understanding of the essence of the struggles inherent in the journey and the factors associated with doctoral persistence. Hearing their voices: factors doctoral candidates attribute to ... The purpose of this phenomenological inquiry was to examine persistence factors associated with the successful completion of a doctoral degree in the field ... Factors doctoral candidates attribute to their persistence Hearing their voices: Factors doctoral candidates attribute to their persistence ... doctoral education, many students do not complete their studies, and very ... Factors Doctoral Candidates Attribute to Their Persistence The purpose of this phenomenological inquiry was to examine persistence factors associated with the successful completion of a doctoral degree in the field ... Factors Doctoral Candidates Attribute to their Persistence. Abstract: The purpose of this phenomenological inquiry was to examine persistence factors associated with the successful completion of a doctoral degree in ... Factors doctoral candidates attribute to their persistence International Journal of Doctoral Studies Volume 7, 2012 Hearing their Voices: Factors Doctoral Candidates Attribute to their Persistence Lucinda S. Theoretical Implications: Persistence in a Doctoral Degree by A Rockinson-Szapkiw — Hearing their voices: Factors doctoral candidates attribute to their persistence. ... A mixed research investigation of factors related to time to the doctorate ... Factors Affecting PhD Student Success - PMC by SN YOUNG · 2019 · Cited by 74 — Hearing their voices: Factors doctoral candidates attribute to their persistence. ... Hearing their voices: Factors doctoral candidates attribute ... Management and Leadership for Nurse Administrators Management and Leadership for Nurse Administrators continues to offer a comprehensive overview of key management and administrative concepts for leading modern ... Essential Leadership Skills for Nurse Managers Aug 2, 2022 — Essential Leadership Skills for Nurse Managers · 1) Time management. Healthcare settings are often fast paced. · 2) Conflict resolution. Not ... Management vs. Leadership in Nursing Sep 3, 2021 — Nurse Leaders focus on empowering others and motivating, inspiring, and influencing the nursing staff to meet the standards of the organization. Nurse Leadership and Management Contributor team includes top-level nurse leaders experienced in healthcare system administration; Underscores the importance of relationships and emotional ... Leadership vs Management in Nursing Jul 30, 2021 — Nursing managers are responsible for managing day-to-day operations in nursing departments and supervising department staff. Leaders typically ... Nursing Leadership and Management: Role Definitions ... Jun 30, 2023 — Nurse managers are responsible for overseeing hiring, staffing and performance reviews for their teams. Nursing management roles rely on ... An

alternative approach to nurse manager leadership by J Henriksen · 2016 · Cited by 18 — Nurse managers are recognized as leaders who have the ability to create practice environments that influence the quality of patient care, nurse job satisfaction ... Breaking Down Nursing Management Roles | USAHS May 6, 2020 — But nurse leaders are more hands-on in terms of focusing on patient care, whereas nurse managers work behind the scenes on daily operations. Management and Leadership for Nurse Managers (Jones ... Addresses theoretical and practical perspectives on four major functions of nurse managers: planning, organizing, leading, and evaluating. Clustering | Introduction, Different Methods and Applications Clustering | Introduction, Different Methods and Applications Cluster analysis Cluster analysis or clustering is the task of grouping a set of objects in such a way that objects in the same group (called a cluster) are more similar (in ... What is cluster analysis? Overview and examples Cluster analysis is a statistical method for processing data. It works by organizing items into groups - or clusters - based on how closely associated they are. A Comprehensive Guide to Cluster Analysis Cluster Analysis is a useful tool for identifying patterns and relationships within complex datasets and uses algorithms to group data points into clusters. Cluster Analysis - Methods, Applications, and Algorithms What is cluster analysis? Cluster analysis is a data analysis technique that explores the naturally occurring groups within a data set known as clusters. What is Cluster Analysis in Marketing? | Adobe Basics Mar 26, 2021 — Cluster analysis in marketing refers to the practice of analyzing shared characteristics between groups and comparing them. Conduct and Interpret a Cluster Analysis The Cluster Analysis is an explorative analysis that tries to identify structures within the data. Cluster analysis is also called segmentation analysis. Cluster Analysis - What Is It and Why Does It Matter? Cluster analysis is the grouping of objects based on their characteristics such that there is high intra-cluster similarity and low inter-cluster ... What is Cluster Analysis? What is Cluster Analysis? • Cluster: a collection of data objects. - Similar to one another within the same cluster. - Dissimilar to the objects in other ... Statistics: 3.1 Cluster Analysis 1 Introduction 2 Approaches to ... Cluster analysis is a multivariate method which aims to classify a sample of subjects (or ob- jects) on the basis of a set of measured variables into a ...