

Scientific Publications

Manuela Aparicio, PhD Carlos J. Costa, PhD (2018)

Agenda

- Publishing
- Review Process
- Paper/Article Structure
- Writing Guidelines



Scientists must write









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Scientists must publish



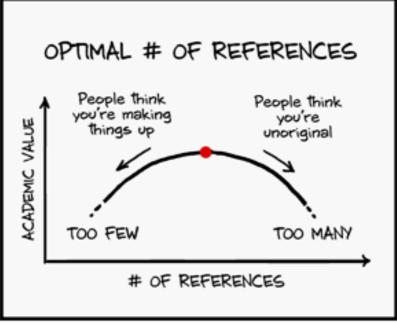




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Scientists must be cited

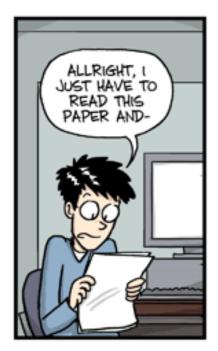






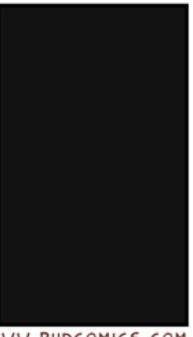
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Scientists must be read









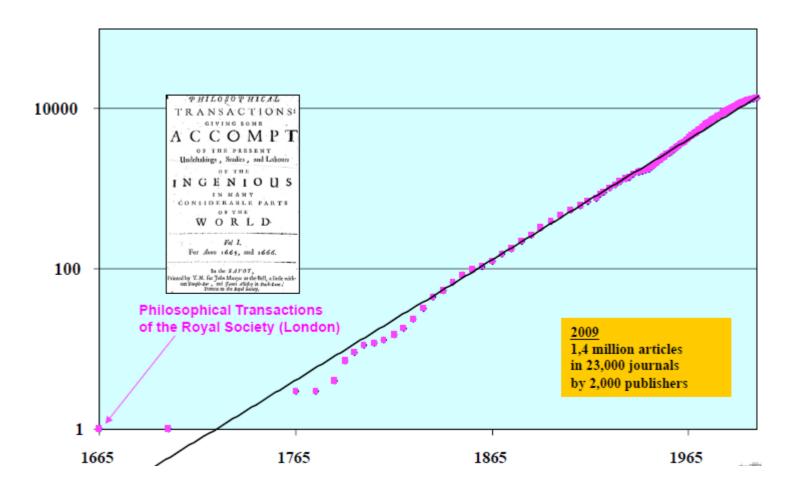
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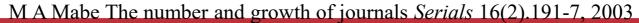
Heinrich Oldenburg

- Heinrich Oldenburg (or Henry Oldenburg) (c. 1619 1677)
- German born
- -Theologian, diplomat, natural philosopher;
- —Early member of the Royal Society (founded in 1660),
- -Served as first secretary of the Royal Society
- -Known for creating the first scientific journal Philosophical
- Transactions of the Royal Society of London 1665



Heinrich Oldenburg







Trends in Publishing

Rapid conversion from "print" to "electronic"

- -1997: print only
- -2009: 55% e-only (mostly e-collections)
- –25% print only
- -20% print-plus-electronic
- -2013: 95+% electronic access
- Changing role of "journals" due to e-access
- Increased usage of articles
- —at lower cost per article
- -Electronic submission
- Increased manuscript inflow
- New publishing models
- —E.g. "author pays" models (open access), "delayed open access" (open archiving), etc.



Why Publishing?

•Publishing is one of the necessary steps embedded in the scientific research process. It is also necessary for graduation and career progression

Think about WHY you want to publish your work.

- Is it new and interesting?
- Is it a current hot topic?
- Have you provided solutions to some difficult problems?
- Are you ready to publish at this point?



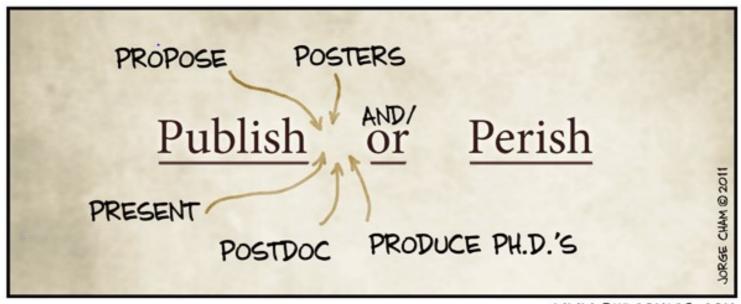


Why Publish?

- •Improves the changes of getting a research grant
- May help you to secure employment
- Personal sense of achievement
- Get research into the public domain
- Contribute towards the evaluation of universities



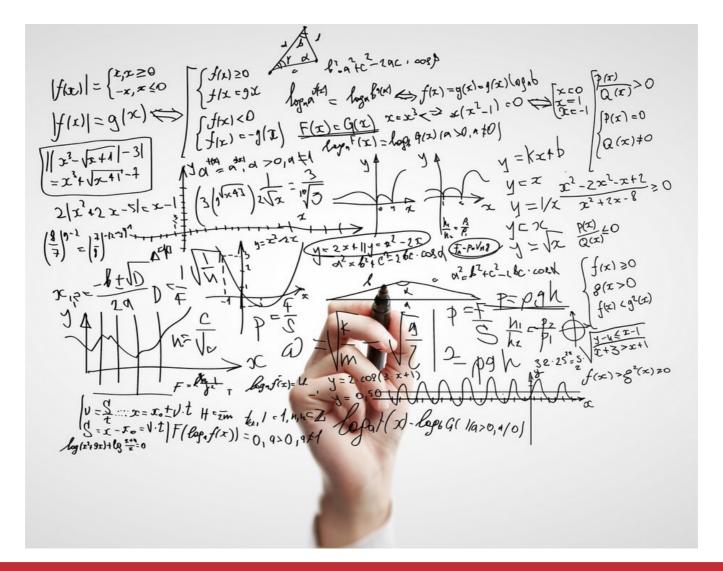
Why Publishing?



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Writing is not an exact science, there are no formulas!



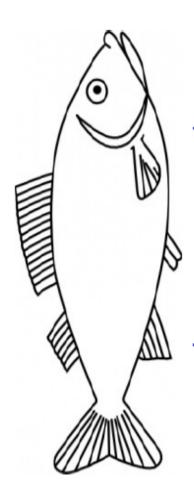


But some tips and guidelines





General Structure



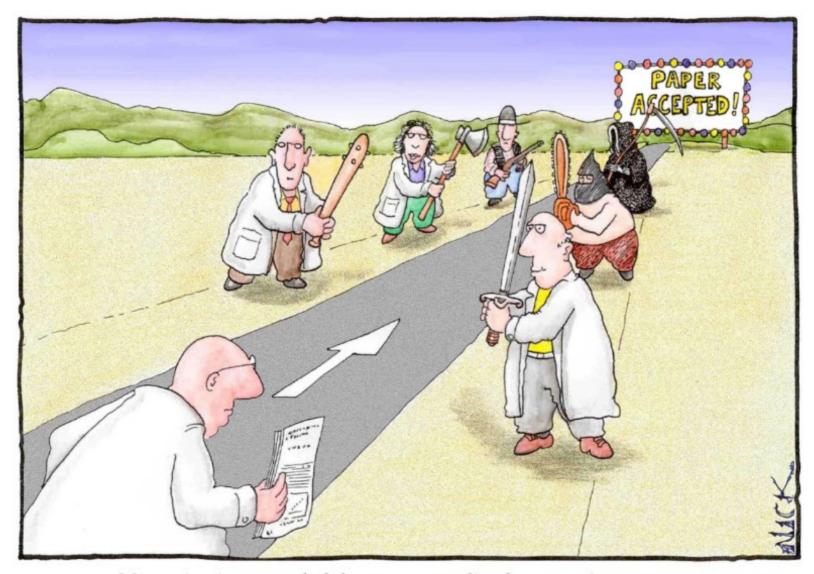
- Title
- Abstract
- Keywords
- Main text (IMRAD)
 - Introduction
 - Methods
 - Results
 - And
 - <u>D</u>iscussions
- Conclusion
- Acknowledgement
- References
- Supplementary Data

- •Make them **easy for indexing** and **searching**! (informative, attractive, effective)
- •Journal **space** is not unlimited.
- •Your reader's **time** is scarce.
- •Make your article as **concise** as possible more difficult than you imagine

Review Process [Traditional]

- One or more reviews by subject matter experts
- Reviewers selected by editor
- Reviewer identity not disclosed to author ("blind" review)
- Author identity may (or may not) be disclosed to reviewer
- Editor has final decision

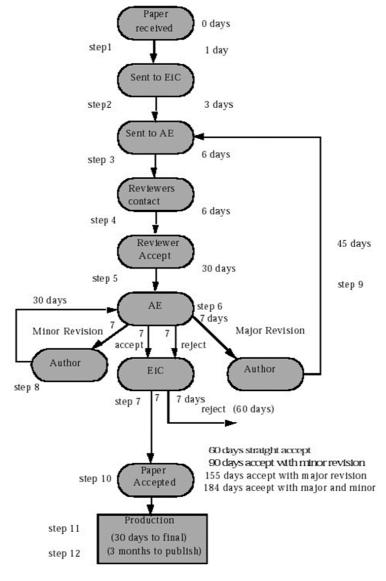




Most scientists regarded the new streamlined peer-review process as "quite an improvement."



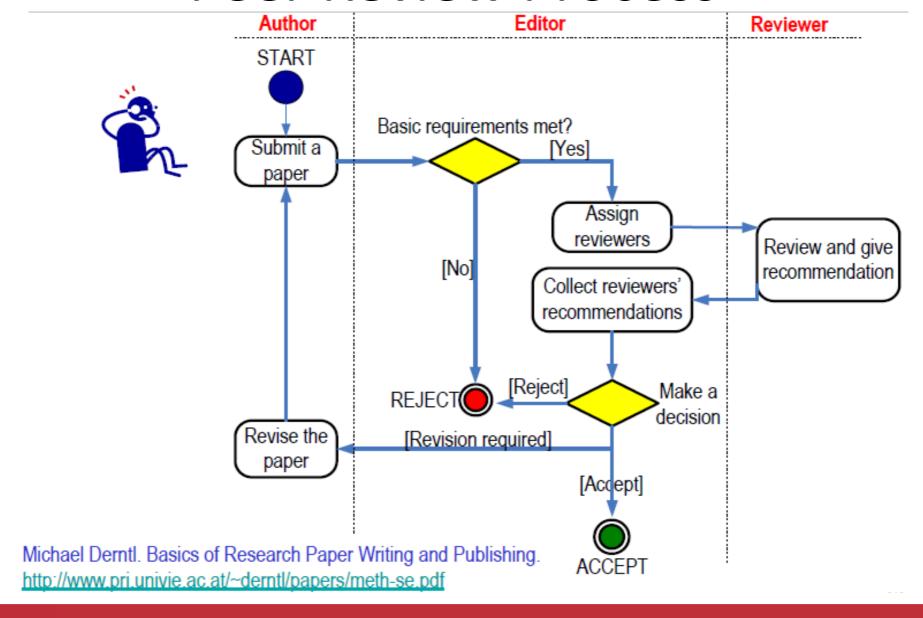
Peer Review Process



Source: http://virtual.vtt.fi/virtual/proj2/titb/authors/review.html



Peer Review Process





Reasons for manuscript rejection (3)



- 1. Inappropriate or incomplete statistics
- 2. Overinterpretation of results
- 3. Inappropriate or suboptimal instrumentation
- 4. Sample too small or biased
- 5. Text difficult to follow
- 6. Insufficient problem statement
- 7. Inaccurate or inconsistent data reported
- 8. Incomplete, inaccurate, or outdated review of the literature
- 9. Insufficient data presented
- 10. Defective tables or figures



Reasons for accepting @ a manuscript

- •Important, timely, relevant, critical, prevalent problem
- •Well-written manuscript (clear, straightforward, easy to follow, logical)
- Well-designed study (appropriate, rigorous, comprehensive design)
- Thoughtful, focused, up-to-date review of the literature
- Sample size sufficiently large
- Practical, useful implications
- Interpretation took into account the limitations of the study
- Problem well stated, formulated
- Novel, unique approach to data analysis



General Structure



- Abstract
- Keywords
- Main text (IMRAD)
 - Introduction
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- Conclusion
- Acknowledgement
- References
- Supplementary Data

Title: should be short and appealing

- •Authors: All those who participated in the paper/work
- •Affiliation: University and Research Centres of all authors
- •Abstract: Writen in the end, it sumarizes the general ideas of the paper (objective, methodology & some results)



Title

Computers in Human Behavior 63 (2016) 659-671

ELSEVIER

Contents lists available at ScienceDirect

Computers in Human Behavior

journal homepage: www.elsevier.com/locate/comphumbeh



run length article

Enterprise resource planning adoption and satisfaction determinants



Carlos I. Costa ^a, Edgar Ferreira ^a, Fernando Bento ^a, Manuela Aparicio ^{a, b, c, *}

- a Instituto Universitario de Lisboa (ISCTE-IUL) ISTAK-IOL, FOR
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ARTICLEINFO

Article history: Received 6 January 2016 Received in revised form 29 May 2016 Accepted 31 May 2016

Keywords: Enterprise resource planning ERP Adoption User satisfaction

ABSTRACT

Enterprise Resource Planning (ERP) systems are at the core of every firm. Making people use this costly and time-consuming investment is one of the most important issues to deal with. The main objective of the present study is to find the key determinants that open the door to user satisfaction and adoption. A theoretical model was set and an online survey was conducted to understand ERP users' perspective on such matters. The outcome was the model validation and the understanding that top management support, training, and the system quality are important constructs to assess adoption and user satisfaction. In fact, the latter (system quality) has a significant influence on the behavioural intention to use and also in the overall user satisfaction. As management support is a very relevant determinant to ERP usage. Accordingly, this study enlightens theory, by contributing to a new model of ERP adoption and satisfaction. It also provides relevant evidence to companies involved in the ERP implementation process.



Describes, in as few

the paper is about.

words as possible, what

Abstract

Summarizes the whole paper, including the results

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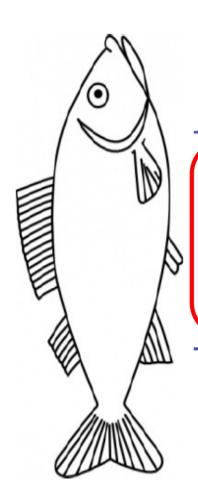
Terms to the indexing

searching process too.

Keywords help in

process.

General Structure



- Title
- Abstract
- Keywords
- Main text (IMRAD)
 - Introduction
 - Methods
 - Results
 - <u>A</u>nd
 - Discussions
- Conclusion
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- Supplementary Data

•Introduction gives a brief context of the topic, introduces the research gap (motivation), research objectives, and presents the paper structure

Introduction



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Full length article

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the research, identifies knowledge gaps, states

Provides background for

the aims of the paper.

What did you do and why.

In an increasingly competitive globalized market, the key to organization's success is the ability to maintain and increase that competitive advantage (Porter, 1991).

In this new paradigm, organisations cannot compete on their own. Success can only be achieved through cooperation with other organisations like truly integrated and flexible supply chains (Lambert & Cooper, 2000).

Enterprise Resource Planning (ERP) is a natural evolution of the 80's manufacturing resource planning (MRP II), inheriting all the concepts and theories that date back to the 60's with first attempts to rationalise lead times and possession stock costs. ERP rapidly became the standard enhancing operational efficiency with the integration of business processes throughout all organization (Akkermans, Bogerd, Yücesan, & van Wassenhove, 2003; Davenport, 1998).

In the past decades, ERP systems' usage numbers have increased tremendously, and the worldwide ERP market summed 22.4 billion euros by 2013. The competition is fierce, and the top five companies

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represent half of the market (SAP: 24%; Oracle: 12%; Sage: 6%, and Microsoft: 5%) (Pang, Dharmasthira, Eschinger Motovoshi, 2013),

After first failures of enterprise resource planning (ERP) systems in mid-1990's, the IS research community became intrigued by the factors in such "productivity paradox" (Brynjolfsson, 1993). Making people adopt a new system was no easy process but is vital to the success of every organization (Basoglu, Daim, & Kerimoglu, 2007).

Various studies were developed to understand the main drivers that led users to adopt a certain ERP system (e.g., Bradley, 2008; Chien & Tsaur. 2007: Gorla. Somers. & Wong. 2010: Nwankna & Roumani, 2014; Nwankpa, 2015; Pan & Jang, 2008; Rajan & Baral, 2015; Sternad & Bobek, 2013; Tsai, Lee, Shen, & Lin, 2012; Youngberg, Olsen, & Hauser, 2009). Although the conclusions were very significant, reviewed studies are usually centred on a specific model or framework and fail to explain the relations between ERP user's adoption and user's satisfaction.

Hence, through the review of scoped literature in the area, the state of the art about ERP Adoption and satisfaction is assessed. Founded on this review, a model proposal is built to have a structural body for validation. A survey is conducted to gather data, which is used as a base for model validation by the quantitative statistical method of PLS-SEM.

The research contributions are threefold. Firstly, this study plains the relationship between ERP adoption at an individu and user satisfaction. Secondly, this research exten



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Literature Review

Provides background many scientists call it the "state of the art".

Gives an overview of what other scientists have done in the topic.

cy. costa et al. / Computers in Human Behavior as (2015), 571

adoption model with the inclusion of three constructs: management support daining, and system quality. Thirdly this model explains of GERP usage satisfaction.

2. Literature review

2.1. Enterprise resource planning (ERP)

Enterprise resource planning (ERP) systems are defined as "comprehensive, packaged software solutions that seek to integrate the complete range of a business's processes and functions in order to present a holistic view of the business from a single information and IT architecture" (Klaus, Rosemann, & Gable, 2000, p.141).

These systems assume a modular structure and provide information integration across every business area using a shared database (Davenport, 1998). ERPs started in the mid-1990s and were used to outline and organize business processes across all the organizational groups. This integrative approach guaranteed that tasks and processes were always performed in the same way in every place the organization is (McAfee, 2009).

Traditionally oriented for capital-intensive industries ERP systems achieved a maturity state of development. Tough in recent years, ERPs are being introduced to other sectors, such as retail, education, finance, insurance, healthcare and hotel chains (Shehab, Sharp, Supramaniam, & Spedding, 2004).

ERP is a multidisciplinary, and interdisciplinary field of study and the research community contribution is diverse and comprehensive (Moon, 2007). A study by (Esteves & Bohorquez, 2007) showed that the most investigated area is the implementation phase, in which success is by far the main topic. Although system usage and evolution are also addressed, other fields of study such as adoption still need more contributions.

The term ERP was coined in 1993 by the Gartner Group based in St. spford, CT. The company started to publish regular reports on the ERP to hoology where the inclusion criterion was the integration extent across the various functional modules (Jacobs & Weston, 2007).

Subsequently, research in 39 increased over the past years. To acquire a general idea of the evolution or in the bod line ature about ERP, main academic databases were scanned for the term 'Enterprise Resource Planning' in the period 1990–2015. Fig. 1

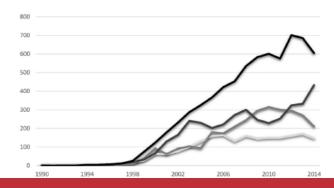
summarizes the results of ERP basis metric research (due to figures discrepancy, and to have an easier reading from the graphic, a factor of 0,1 was applied to Google Scholar search results).

These results reveal the growing interest in ERP on the past 25 years. The first relevant increase in the number of publish d work about ERP was in the year of 1997 with four times more hits ban the previous year. Since then, the amount of work on ERP resears has increased exponentially over the first decade of the 21st century with a considerable leap of 74% in 2000 (related to 1999) and an explicit growth of 346% at the end of the first decade (2009) when compared with 2000. Consistent with this growth, the numbers also show that ERP still is a prominent field in the research community, with about 6200 search results on average in the 2009–2014 period (Google, 2015).

2.2. Recent ERP empirical studies

As seen before, ERP research is vast and disperse, After a closer look at published literature, it is clear that the main focus has been the implementation phase success and system's technical aspects, neglecting themes like ERP system adoption (Esteves & Bohorquez, 2007; Moon, 2007; Pairat & Jungthirapanich, 2005; Shehab et al., 2004). This paradigm seems quite confusing when research indicates that software selection and preparation is the critical part of the implementation project (Shaul & Tauber, 2013). Therefore, stakeholder's adoption in ERP systems implementation can give a dearer insight on how to approach this early stages problematic (Hwang, 2005).

First, ERP adoption is mainly studied using several models and extensions mainly based on the contribution of psychology's Theory of Planned Behaviour (TRA) (Fishbein & Ajzen, 1975) in technologies research (Wu & Chen, 2005). Although they are various models that explain user's adoption, the Typinology Acceptance Model (TAM) (Davis, 1986, 1989) is the my freferenced in this area of research (Basoglu et al., 2007; Le., Aozar, & Larsen, 2003; Venkatesh & Bala, 2008; Venkatesh for thong, & Xu, 2012). Secondly, researchers working out and system's success in most cases apply the DeLope & Laccan (D&M) is success model (DeLone, 1988) as the ment tool to evaluate the system's implementation success (Mardiana, Tjakraatmadja, & Aprianingsih, 2015). In this case, success is understood as net benefits for the individual and





Literature Review

- •In this part should be referred/cited the main authors on the topic
- Should entail various perspectives how the topic was studied
- •Here only scientific references are accepted, from scientific papers, articles, or other scientific publications



Instruments in Literature Review

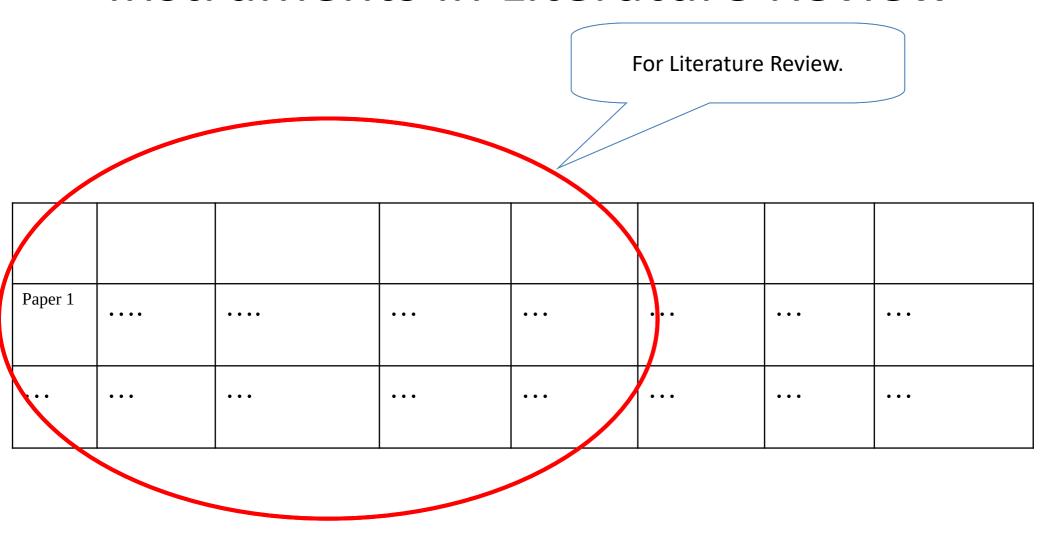
- •Each paper you read should keep a register in order to reuse the information
- •Do a fast read of the paper first & register in a table:

Paper 1	••••	••••	•••	•••	•••	•••	•••
•••	•••	•••	•••	•••	•••	•••	•••

•Add new, for example to instruments used and techniques

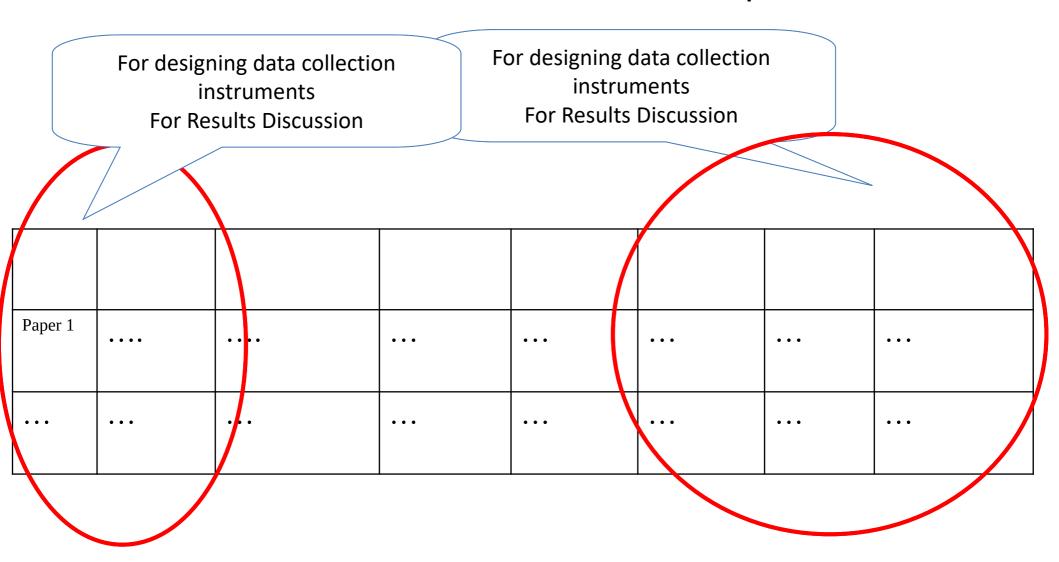


Instruments in Literature Review





Instruments in Literature Review & Empirical Work





Search Techniques

- Use search terms of the "same family"
- (eg: computer science, computer technologies...)
- •Use operators AND, OR, XOR (for two different terms, or one or another but not both at the same time)
- Use Truncations (eg: comput*)
- •Combine synonyms: or, and (+), not (-)
- •(eg: computer and information or IT)
- •To search na exact word "____"
- •(eg: "computer science")
- For searching in specific domains; site:edu site:pt
- For searhing in titles (eg: allintitle: information systems)
- For searching in specific type of files; (eg: filetype: pdf)
- •Use operators "?" or "\$" for compound words
- •(eg. ecommerce ou e-commerce, mobile banking, m-banking)



Digital Libraries of Reference

National

- •https://www.iscte-iul.pt/contents/estudantes/520/biblioteca-iscteiul
- •http://www.b-on.pt/
- •http://www.rcaap.pt/

International

- •http://dl.acm.org
- http://ieeexplore.ieee.org/Xplore/home.jsp
- •http://aisel.aisnet.org/
- •http://dblp.uni-trier.de/
- •https://scholar.google.com



Methodological Approach

Describes all study steps.

- •Includes:
- -Samples
- –Sampling methods
- -Data collection
 (methods/instruments)
- –Data analysis (methods)
- -Ethical statements
- –(Some references)

vention"educates" users about ERP's usefulness.

Thus, we hypothesize that management support (MANS) influences positively the ERP usefulness.

H11. Management Support has a positive effect on Perceived ERP Usefulness.

According to Urbach et al. (2010), having management support is essential to motivate system's use.

With similar conclusions, several recent studies point out that this management encouragement can largely influence the use frequency of ERP systems (Bradley, 2008; J.; Nwankpa & Roumani, 2014; Pan & Jang, 2008).

Hence, we expect that the menagement support (MANS) may increase effective ERP use (USE).

H12 Management Support has a positive effect on ERP Use.

4. Empirical methodology

4.1. Measurement instrument

The research model was validated through the quantitative method using previously proven and tested scales to operationalize each construct and increase validity. Hence, in the development of the measurement instrument items were adapted from the previously confirmed empirical studies.

Considering the reviewed literature, a set of items was selected for each construct. After a thorough discussion, the most appropriate a group of items from previously validated empirical studies was chosen to have into consideration the validity and model's best fit.

Afterward, a first draft was created and pre-tested with a panel of ten randomly chosen ERP end users from different organizations. The first part included an introduction and a set of sample characterization questions. On the second part, the chosen model's



Results

Statistical results or Software test results are presented here.

Take special attention to the visual part of your tables and figures. CJ. Costa et al. / Computers in Human Behavior 63 (2016) 59-6

Measy ment model results

instruct	ltem	Outer loading	Internal reliability	Composite reliability	Cronbach's alg	AVE	Discriminant validity?
ВІ	BEHI 1	0.956	0,913	0.977	0.964	0,933	Yes
	BEHI 2	0.956	0.914				
	BEHI3	0,985	0.971				
MANS	MANSI	0,958	0.917	0.935	0,864	1878	Yes
	MAN S2	0.916	0.839				
PEOU	PEOU1	0,934	0.872	0.966	0,953	02 7	Yes
	PEOU2	0.915	0.837			•	
	PEOU3	0.946	0.896			•	
	PEOU4	0,951	0,904			_	
PU	PUSE1	0.970	0.941	0.980	0.973	0.924	Yes
	PUSE2	0.957	0.916				
	PUSE3	0.970	0.941				
	PUSE4	0.948	0.899				\
SYSQ	SYSQ1	0.883	0.780	0.965	0.956	0.821	s
	SYSQ2	0.913	0.833				\
	SYSQ3	0.929	0.863				•
	SYSQ4	0.924	0.854				\
	SYSQ5	0,873	0.761				
	SYSQ6	0.914	0.836				\
TRAI	TRAI1	0.947	0,898	0.944	0.911	0.848	Yes
	TRAI2	0.967	0.935				\
	TRAIS	0.844	0.712				\
USE	USE1	1,000	1,000	Single Item			\
USS	USSI	0.957	0.915	0.981	0.975	0.930	Yes
	USS2	0,964	0.929				1
	USS3	0.967	0.934				_
	USS4	0.970	0.940				•

that each indicator is associated with only one construct. The crossloading table shows that indicator's outer loadings are greater than all of their loadings on other constructs. An item loading is considered high if the loading coefficient is above 0.600 and considered low if the coefficient loading is below 0.400 (Gefen & Straib 2.005).

Since cross-loadings, indicators are considered a rather liberal criterion regarding discriminant validity, a more conservative approach to assessing discriminant validity was also taken into consideration. The Fornell-Larcker criterion validates constructs by comparing the square root of Average Variance Extracted (AVE) with the results of the latent variable correlation (Fornell & Larcker, 1981; Hair et al., 2011). This criterion is based on the idea that a construct shares more variance with its associated indicators than with any other construct, Table 5 reports that comparison. It shows that all the model's constructs are validated, and that measures of different constructs.

The results of the measurement model show the item's reliability and convergent validity. In other words, the model's LV, behavioural intention (BI), management support (MANS), perceived ease of use (PEOU), perceived usefulness (PU), system quality (SYSQ), training (TRAI), use (USE), and user satisfaction (USS), are well represented by all the questions posed to ERP end-

Table 5 Interconstruct correlation and square root of AVEs.

	BI	MANS	PEOU	PU	SYSQ.	TRAI	USE	USS
BI	0.966							
ANS	0.460	0.937						
PE. V	0.659	0,380	0.937					
PU	0.711	0,460	0.584	0.961				
SYSQ.	689	0,327	0.750	0.592	0.906			
TRAL	0. 7	0,301	0.611	0.485	0.604	0.921		
USE	0.451	0.401	0.366	0.433	0.320	0.257	Single	Item
USS	0.744	. 93	0.705	0.722	0.832	0.596	0.356	0.964

Notes: Diagonal elements are sure roots of average variance extracted (AVE), Of

users. Once the measurement model is confirmed reability and validity using PLS, the next step is to assess the structural model.

5.2. Assessment of the structural model

Before the assessment of the structural model we sted all the constructs for multicollinearity, which is considered to be a threat to model experimental design (Farrar & Clauber, 1947), we cakulated the variance inflation factor (VIF). Test results showed that multicollinearity does not exist, all variance inflation factors obtained were lower than 4.671, which is well by ow than the threshold of 10 (Diamantopoulos & Siguaw, 2018; Gujarati & Porter 2009).

The structural model's quality was evaluated using bootstrapping, a resampling technique that draws a large number of subsamples retrieved from the original dataset in this case, 5000 subsamples were used to determine the path's rignificance within the structural model (Henseler, Ringle, & Sin Jovics, 2009). Structural model results can be observed in Fig. 3

After establishing the validity of the fructural model, the structural paths were assessed to test the research hypotheses. Training ($\beta=0.176$, p<0.010), Managerient Support ($\beta=0.264$, p<0.001), and Perceived Ease of Use ($\beta=0.377$, p<0.001), explain 42.7% of the variation in Perceived Lefulness. In another hand, Training ($\hat{\beta}=0.248$, p<0.001) and System Quality ($\hat{\beta}=0.600$, p<0.001), explain 60.1% of the Parkeived Ease of Use.

Behaviour Intention is explained in 63.1% by the constructs of Perceived Usefulness ($\hat{\beta}=0.4\%$, p<0.001), Perceived Ease of Use ($\hat{\beta}=0.18$, p<0.001), Perceived Ease of Use ($\hat{\beta}=0.18$, p<0.001) and p=0.001, Behaviour intention ($\hat{\beta}=0.338$, p<0.001) and Management Support ($\hat{\beta}=0.246$, p<0.001) explain 25.1% of the ERP system Use while the same Us ($\hat{\beta}=0.100$, p<0.010) together with System Quality ($\hat{\beta}=0.00$, p<0.001) explains 70.2% of the variation in User satisfy son. All paths are statistically significant and, therefore a simportheses are supported.

the presented model supported all paths having, at least, a small



Discussion

Fig. 3. Structural mod , results.

predictive impact, as seen in Table 6. The five dependent atent variables are explained in more than half of the variances except PU and USE. User satisfaction (USS) with $R^2=0.702$, behavioural intention (BI) with $R^2=0.631$, and Perceived Ease of Use (PEOU) with $R^2=0.601$, present values that can be considered substantial. Q^2 is a measure of the predictive success, and positive values confirm the model's predictive relevance (Geisser & Eddy, 1979; Stone, 1974). Results show positive values for Use ($Q^2=0.256$), Perceived Usefulness ($Q^2=0.393$), Perceived Ease of Use ($Q^2=0.525$), Behavioural Intention ($Q^2=0.576$) and User Satisfaction ($Q^2=0.649$).

6. Discussion

6.1. Hypotheses discussion

All presented hypotheses were empirically supported for ERP systems. Though the given model shows predictive capacities supporting all hypotheses, results show different levels of support. These singularities will be addressed below.

Results show that the model's inner triangle, i.e. hypotheses 1, 2, and 3, show different effects. All effects are significant and positive but have different strengths. In the first hypothesis, perceived usefulness has a very significant influence on behavioural intention (p < 0.001) and also has medium effect explaining this relation $(0.350 > \hat{f}^2 > 0.150)$. The relation between perceived ease of use and

Study comparisons with other studies.

Data interpretation

- Study's limitations
- How data fits/contradicts published work

Discussion

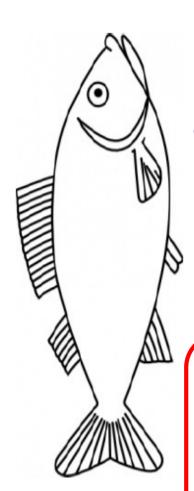
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Table 6
Results of hypotheses tests.

Hypotheses Independent variable → Dependent variable		→ Dependent variable	Findings -onclusion
H1	Perceived Usefulness (PU)	→ Behavioural Intention (BI)	Positively & statistically significant *** $(\widehat{\beta}=0.426, p<0.001)$ Supported with medium effect
H2 H3		J) → Perceived Usefulness (PU) J) → Behavioural Intention (BI)	Positively & statistically significant *** $(\hat{\beta}=0.377, p<0.001)$ Supported with small effect Positively & statistically significant * $(\hat{\beta}=0.188, p<0.050)$ Supported with small effect



General Structure



- Title
- Abstract
- Keywords
- Main text (IMRAD)
 - Introduction
 - Methods
 - Results
 - And
 - <u>D</u>iscussions
- Conclusion
- Acknowledgement
- References
- Supplementary Data
- •At the end only global conclusions
- Funding/ Grants
- •REFs
- •Appendixes A, B, C, D....

Conclusions

Study conclusions and future works.

In this section do not refer to other studies/authors.

Future works are to be placed here too.

studies that studied the same kind of relations (J. Nwankpa & Roumani, 2014; Rajan & Baral, 2015; Youngberg et al., 2009).

Hypothesis 11 shows management support impact on perceived usefulness. This relation is positive, highly significant (p < 0.001), and shows a small effect (0.150 > f^2 > 0.020) explaining perceived usefulness. Results are consistent with Bradley's (2008) qualitative study on how management support was required but wasn't the most important fact explaining project's success. Also Nwankpa and Roumani (2014) sustain that management support is important educating users about ERP system usefulness.

Considering reviewed literature, results on training effect on perceived usefulness and on perceived ease of use are somewhat disappointing. Model results show that training has a medium significance (p < 0.010) and a small effect (0.150 > $p^2 > 0.020$) towards perceived usefulness (hypothesis 6), and a high statistical significance (p < 0.001) but also small effect (0.150 > $p^2 > 0.020$) explaining perceived ease of use (hypothesis 7). Literature stresses the critical importance of this specific construct's contribution to 1S adoption in general and in ERP systems in particular (Bradley, 2008; Rajan & Baral, 2015; Ruivo et al., 2014; Youngberg et al., 2009). Although is also positively and significantly related to the model, training is the weakest independent latent variable.

System quality is without a doubt the most influencing independent LV of the model. This construct impact on perceived ease of use is vast (p < 0.001) and has a large explanatory effect ($f^2 > 0.350$). This result is consistent with the previous ERP adoption study by Sternad and Bobek (2013). Hypothesis 9 shows a weaker link of system quality with behavioural intention, presenting a small explanatory effect (0.150 > $f^2 > 0.020$) and high statistical significance (p < 0.001). However, the system quality may be related to the extent of ERP implementation, as long as it can create the initial conditions for application integration and business process enhancements (J. K. Nwankpa, 2015). The ERP modularity characteristics can provide the possibility of a different scope and depth level of implementation. This relationship needs further studies.

In this study management support and system quality are key drivers to use and to user satisfaction, correspondingly. These atmensions can be related to change management and with Let's selection (Ranjan, Jha, & Pal, 2016), this is a relevant aspect preding to be studied.

Finally, the difference between hypotheses related with user satisfaction (H5 and H10) are quite revealing of system's quality weight in explaining user's perceptions about an EP system. We have hypothesis 5 with a weak linkage between use and user satisfaction regarding statistical significance (p < 0.050), and in explanatory capabilities (small effect: 0.150 > f^2 > 0.020). In opposition to this result, system quality showed a very wigh statistical significance (p < 0.001) as well as a large effect (f^2 > 0.350) when explaining user satisfaction. Our results confirm with other ERP studies suggested: System quality (SYSQ) is a key component to take into consideration (Chien & Tsaur, 2007; Tsai et al., 3012).

Thirdly, results suggest that user satisfaction can be largely explained by system quality. System quality should be observed as a decisive construct when assessing an IS system, specifically ERP systems.

6.3. Practical implications

The presented model offers a mean of organizations to assess and predict the adoption and user satisfaction of their ERP systems. As seen before, ERP systems' adoption and user satisfaction are multidimensional and interdependent, and while some relations are stronger than others, the analysis should never isolate or reject one particular construct.

Although management support and training showed a lesser significance, this does not mean the influence should be disregarded since the influence exists and is statistically supported.

However, results are quite clear: system quality has the best explanatory capabilities and can largely and directly explain user satisfaction. Hence, practical implications for industry should be taken into account when implementing and maintaining an ERP system.

A correct understanding of the organization real necessities and requirements is vital to ensure that the configuration and parameterization of the needed functionalities are process oriented and without any clutter. Another implication is the importance of ensuring that all system components (hardware and software) are well balanced and integrated to assure fast and reliable data access.

6.4. Limitations and future work

The present study has some limitations. First, the sample data was collected from several organizations representative of major industries but do not have a computersive and exhaustive industry ande panorama. Also, the sample was one tiged from just one European country and represents a nationwide perspective. Although the results are statistically relevant, further surveys with a larger territorial scope will increase the model's explanatory capabilities.

The proposed model suggest a deeper study of the influence strength of System Quality with the other constructs. The most intriguing finding relates to the explanatory capabilities of this construct (SYSQ) opposed to the classical adoption and success theories when studying user satisfaction.

7. Conclusions

Nowadays, ERPs are at the core of every modern and competitive business. This multidimensional IS manages all the information flow and is critical for every organization stakeholder. Therefore, it is vital to understand what motivates individuals to use best the given ERP system. Hence, the present study aims to find the main determinants influencing ERP user adoption and satisfaction.

Literature review points out to three most significant construct influencing adoption and satisfaction (independent LV) which are



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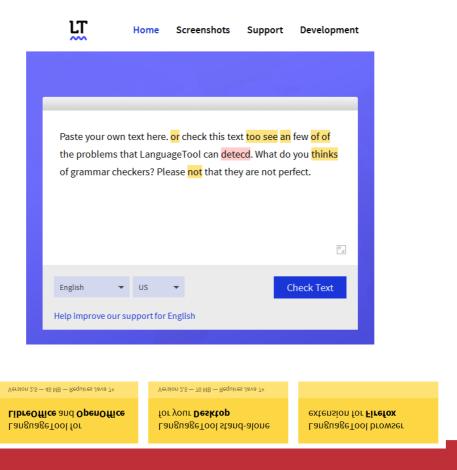
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Publication Types

- Article (Scientific Journal, ISSN)
- -10 to 25 pages (or 8000 words usually)
- Paper (Conference proceeding, ISBN)
- -Full paper (6 to 8 pages)
- –Short paper (4 to 6 pages)
- –Poster (up to pages or more it depends on the publication)



Writing an article: where to start?

The White Rabbit put on his spectacles.

"Where shall I begin, please your Majesty?"- he asked.

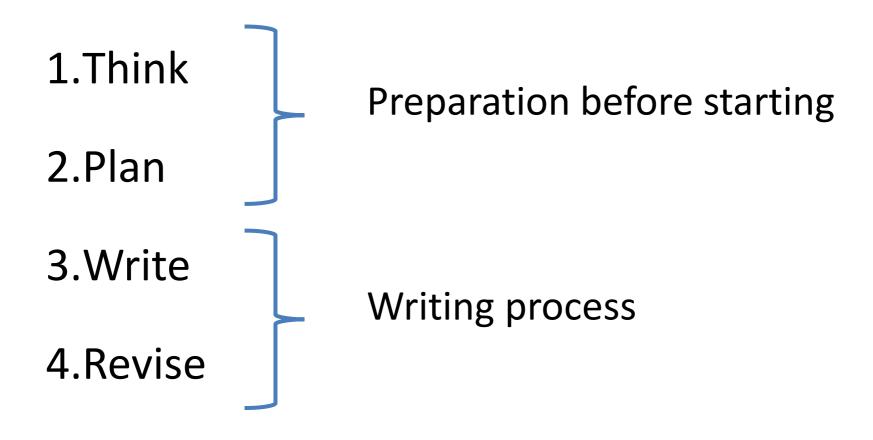
"Begin at the beginning," the King said gravely, "and go on till you come to the end: then stop."



Lewis Carol
Alice's Adventures in Wonderland

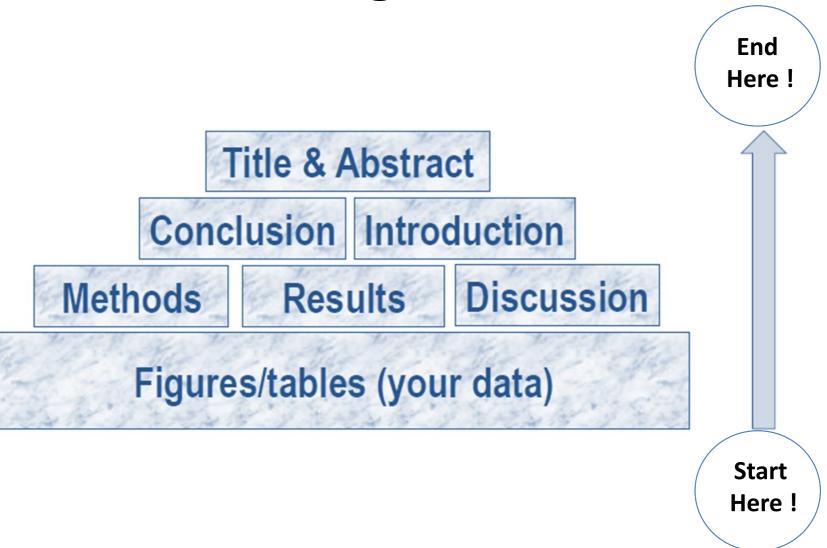


Writing a Paper





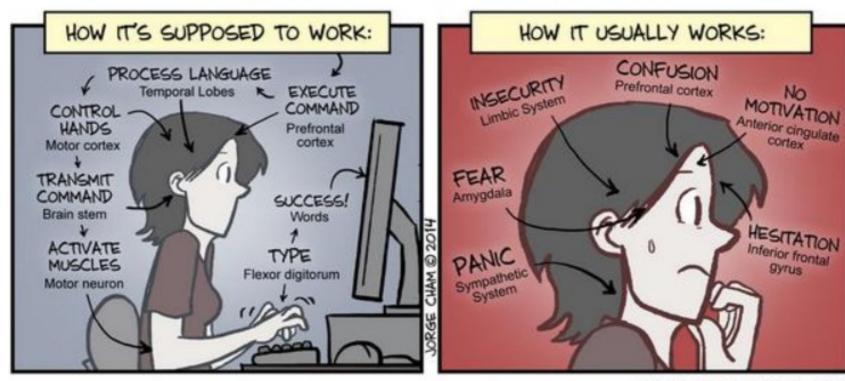
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