REVISÃO SISTEMÁTICA DE LITERATURA

Profa. Lucila Ishitani Introdução à Pesquisa em Informática ICEI – PUC Minas

POR QUE SISTEMÁTICA?

Resultados da pesquisa por "Software Metrics" em jan/2018

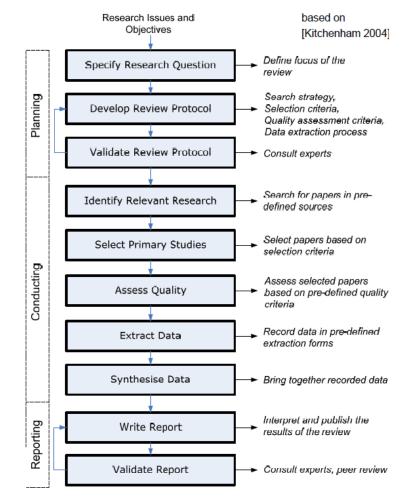
Google	384.000
Scholar Google	46.700
IEEE	5.031
Science Direct	1.834
ACM	494



SLR Process

Key elements:

- 3 phases
 - Planning
 - Conducting
 - Reporting
- Explicit definition of a review protocol!
- Continuous validation and quality assessment!



Fonte: http://seaa2011.oulu.fi/tutorials/RR_SEAA2011ResearchMethods_SLR.pdf

- Hall, T.; Beecham, S.; Bowes, D.; Gray, D.; Counsell, S., "A Systematic Literature Review on Fault Prediction Performance in Software Engineering," *Software Engineering, IEEE Transactions on*, vol.38, no.6, pp.1276,1304, Nov.-Dec. 2012
- Objective: to "investigate how the context of models, the independent variables used and the modelling techniques applied, influence the performance of fault prediction models."

Researc	h Questions	Motivation
RQ1	How does context affect fault prediction?	Context has been shown to be a key factor in the comparative use of software metrics in general [5]. Context is important in fault prediction modelling as it can affect the performance of models in a particular context and the transferability of models between contexts. Currently the impact context variables have on the transferability of models is not clear. This makes it difficult for potential model users to select models that will perform well in a particular context. We aim to present a synthesis of current knowledge on the impact of context on models and the transferability of models.
RQ2	Which independent variables should be included in fault prediction models?	There are a range of independent variables that have been used in fault prediction models. Currently the impact individual independent variables have on model performance is not clear. Although the performance of independent variables has been investigated within individual studies, no comparison of performance across studies has been done. This makes it difficult for model builders to make informed decisions about the independent variables on which to base their models. We aim to present a synthesis of current knowledge on the impact independent variables have on models.
RQ3	Which modeling techniques perform best when used in fault prediction?	Fault prediction models are based on a wide variety of both machine learning and regression modelling techniques. Currently the impact modelling technique has on model performance is not clear. Again, the performance of modelling techniques has been investigated within individual studies, but no comparison of performance across studies has been done. This makes it difficult for model builders to make effective technique selections. We aim to present a synthesis of current knowledge on the impact of modelling technique on model performance.

- Inclusion criteria (a paper must be...)
 - An empirical study
 - Focused on predicting faults in units of a software system
 - Faults in code is the main output (dependent variable)
- Exclusion criteria (a paper must not be...)
 - Focused on: testing, fault injection, inspections, reliability modelling, aspects, effort estimation, debugging, faults relating to memory leakage, nano-computing, fault tolerance.
 - About the detection or localisation of existing individual known faults.

- Pesquisa:
 - Included papers were published between January 2000 and December 2010.
 - There were four elements to our searches:
 - Key word searching using the search engines:
 - ACM Digital Library
 - IEEExplore
 - ISI Web of Science
 - An issue-by-issue manual reading of paper titles in relevant journals and conferences. [...] These were chosen
 as highly relevant software engineering publications found previously to be good sources of software
 engineering research.
 - A manual search for publications from key authors using DBLP3. These authors were selected as appearing
 most frequently in our list of papers: Khoshgoftaar, Menzies, Nagappan, Ostrand and Weyuker.
 - The identification of papers using references from included studies.

Table 10 Conferences and journals manually searched

Conference manually searched	Journals manually searched
International Conference on Software Engineering (ICSE)	IEEE Transactions of Software Engineering
International Conference on Software Maintenance (ICSM)	Journal of Systems and Software
IEEE Int'l Working Conference on Source Code Analysis and Manipulation (SCAM)	Journal of Empirical Software Engineering
International Conference on Automated Software Engineering	Software Quality Journal
IEEE Int'l Symposium and Workshop on Engineering of Computer Based Systems	Information & Software Technology
International Symposium on Automated Analysis-driven Debugging	
International Symposium on Software Testing and Analysis (ISSTA)	
International Symposium on Software Reliability Engineering	
ACM SIGPLAN Conference on Programming language Design and Implementation	
Int'l Workshop on Mining Software Repositories	
Empirical Software Engineering & Measurement	
PROMISE	
Foundations of Software Engineering	

Table 3
Paper selection and validation process

Selection Process	# of papers	Validation
Papers extracted from databases, conferences and jour- nals	2,073	80 random papers independently classified by 3 researchers
Sift based on title and abstract	-1,762 rejected	Fair/good inter-rater agreement on first sift (k statistic test)
Full papers considered for review	311 primary 80 secondary	Each paper is read in full and 80 secondary papers are identified from references
Rejected on full reading	-185 rejected	Papers are rejected on the basis that they do not answer our research questions
Comparison to Catal and Diri's review	2 (our searches missed)	
Papers accepted for the review	208 papers	

Assessment criteria:

- Phase 1: Establishing that the study is a prediction study.
- Phase 2: Ensuring sufficient contextual information is reported.
- Phase 3: Establishing that sufficient model building information is reported.
- Phase 4: Checking the model building data.

Table 8
Results of applying assessment criteria

Number of papers passed	Number of papers failed							
	Phase 1: Prediction	Total failed						
36	41	114	2	13	2	173		

- Kitchenham, B., Mendes, E., Travassos, G.H. (2007) A Systematic Review of Cross- vs. Within-Company Cost Estimation Studies, IEEE TSE, 33 (5), 316-329.
- Objective: "to determine under what circumstances individual organisations would be able to rely on cross-company based estimation models."

Questões:

- RQI:What evidence is there that crosscompany estimation models are not significantly worse than within-company estimation models for predicting effort for software/Web projects?
- RQ2: Do the characteristics of the study data sets and the data analysis methods used in the study affect the outcome of within company and cross-company effort estimation accuracy studies?
- RQ3:Which estimation method(s)/process(es) were best for constructing crosscompany effort estimation models?

Search string:

(software OR application OR product OR Web OR WWW OR Internet OR World-Wide Web OR project OR development)

AND

(method OR process OR system OR technique OR methodology OR procedure)

AND

(cross company OR cross organisation OR cross organization OR cross organizational OR cross organisational OR cross-company OR cross-organization OR cross-organization OR multi organization OR multi organization OR multi organization OR multi-company OR multi-company OR multi-organisation OR multi-organization OR multi-organization OR multi-organization OR multiple organization OR multiple organization OR multiple organization OR multiple-organization OR multiple-organization OR multiple-organization OR multiple-organization OR multiple-organization OR within organization OR within organization OR within organization OR within organization OR within-organization OR within-organization OR within-organization OR within-organization OR single organization OR single-organization OR single-organiza

AND

(model OR modelling OR modelling)

AND

(effort OR cost OR resource)

AND

(estimation OR prediction OR assessment)

- Fontes:
 - Compendex,
 - IEEE Xplore,
 - Springer Link,
 - ISI Web of Knowledge,
 - ScienceDirect,
 - Wiley Inter Science Journal Finder,
 - ACM Digital Library
 - Individual journals (J) and conference proceedings (C)

- Empirical Software Engineering (J)
- Information and Software Technology (J)
- Software Process Improvement and Practice (J)
- Management Science (J)
- International Software Metrics Symposium (C)
- Int. Conference on Software Engineering (C)
- Empirical Assessment in Software Engineering (manual search) (C)

- Inclusion criteria:
 - any study that compared predictions of cross-company models with withincompany models based on analysis of single company project data.
- Exclusion criteria:
 - studies where projects were only collected from a small number of different sources (e.g. 2 or 3 companies),
 - studies where models derived from a within-company data set were compared with predictions from a general cost estimation model.

- Avaliação de qualidade
 - Is the analysis process description complete?
 - Was the data investigated to identify outliers and to assess distributional properties before analysis?
 - Was the result of the investigation used appropriately?
 - Were the resulting estimation models subject to sensitivity or residual analysis?
 - Was the result of the sensitivity or residual analysis used appropriately?
 - Were accuracy statistics based on the raw data scale?
 - Is it clear what projects were used to construct each model?
 - Is it clear how accuracy was measured?
 - Is it clear what cross-validation method was used?
 - Were all model construction methods fully defined (tools and methods used)?

- Avaliação de qualidade
 - How good was the study comparison method?
 - Was the single company selected at random (not selected for convenience) from several different companies?
 - Was the comparison based on a completely independent hold out sample or on n-fold cross-validation for the within-company model?
 - The size of the within-company data set, measured according to the criteria presented below. Whenever a study used more than one within-company data set, the average score was used:
 - Less than 10 projects: Poor quality (score = 0)
 - Between 10 and 20 projects: Fair quality (score = 0.33)
 - Between 21 and 40 projects: Good quality (score = 0.67)
 - More than 40 projects: Excellent quality (score = 1)

- Darja Šmite, Claes Wohlin, Tony Gorschek, Robert Feldt. (2010). Empirical evidence in global software engineering: a systematic review. Empirical Software Engineering, 15, 91–118.
- Objective: "to capture the current empirically evaluated knowledge in the area and to identify needs and opportunities for future research."

- Questões:
 - RQI:What is the state-of-the-art in empirical studies of GSE?
 - RQ1.1:Who is Involved in GSE?
 - RQ1.2: Where are the Development Sites Located?
 - RQ1.3:What is Studied in GSE?
 - RQ1.4: How Successful are the Cases Reported in Literature?
 - RQ1.5:Why are Companies Involved in GSE?
 - RQ2:What is the strength of the empirical evidence reflected in the empirical GSE?

- Search string:
- The final search strings were based on the experience from the pilot searches

and consisted of a Boolean expression:

- (A1 or A2 or A3 or A4)
- AND (B1 or B2 or B3 or B4)

AI—global software development

A2—global software engineering

A3—distributed software

development

A4—distributed software

engineering

BI—empirical

B2—industrial

B3—experiment

B4—case study

- Fontes:
 - Compendex,
 - IEEE Xplore,
 - Springer Link,
 - ISI Web of Knowledge,
 - ScienceDirect,
 - Wiley Inter Science Journal Finder,
 - ACM Digital Library

- Marcela Genero, Ana M. Fernández, H. James Nelson, Geert Poels, Mario Piattini. (2011). A Systematic Literature Review on the Quality of UML Models. Journal of Database Management, 22(3), 46-70.
- Objetivo: "to explore the history of the field and to determine its current state of the art by locating, evaluating, and interpreting relevant research to date that is related to model quality with a focus on UML."

- Questões:
 - RQ1. Which type of UML model quality has been investigated by researchers?
 - RQ2. Which research methods are used in research on UML model quality?
 - RQ3. What is the nature of the research results on UML model quality?
 - RQ4. Which research goals are aimed at in research on UML model quality?
 - RQ5. Which type of UML diagrams is the focus of the research on UML model quality?

The search terms used were constructed using the following steps (Brereton, Kitchenham, Budgen, Turner, & Khalil, 2007):

- Define the major terms.
- Identify alternative spellings, synonyms or related terms for major terms.
- Check the keywords in any relevant papers we already had.
- Use the Boolean OR and AND to link the major terms.

Major terms	Alternative terms					
Quality	quality OR consistency OR maintainability OR understandability OR completeness OR comprehension OR comprehensibility OR testability OR defect OR effectiveness OR complexity OR readability OR metric OR measure OR efficiency OR validation OR verification OR layout					
UML	UML OR Unified Modeling Language					
Representation	Representation OR diagram OR model					

Fontes:

- SCOPUS database,
- ScienceDirect with the subject Computer Science,
- Wiley InterScience with the subject of Computer Science,
- IEEE Digital Library,
- ACM Digital Library,
- SPRINGER database.

Inclusion criteria:

- Papers which dealt with UML and the tangible results of the modelling process (the UML diagram),
- were written in English,
- and were published between 1997 and 2009.

- Exclusion criteria:
 - pure discussion and opinion papers,
 - studies available only in the form of abstracts or presentations,
 - duplicates,
 - research focusing issues other than UML model quality (for example, functional size measurement),
 - or where quality is mentioned only as a general introductory term in the paper's abstract and an approach or other type of proposal related to quality is not amongst the paper's contributions.
 - Papers were also excluded if they dealt with the quality and complexity of UML as a language (for example, how to make UML the language simpler) rather than on the quality and complexity of the models produced by UML,
 - if the paper was a summary of a workshop.

Table 4. Chronology of the development of activities in the SLR

Time	Planning	Conducting	Reporting	Outcomes					
	First phase								
July 2007	July 2007 Protocol development Review prot								
Sept 2007		Data retrieval (until Sept 2007)		Form with the general information of the papers (1500 papers).					
		Study selection upon ab- stracts and titles		Form with the general information of the selected papers (483 papers).					
Mar 2008		Retrieval of the files of the primary studies		Repository of papers (483 papers).					
Apr 2008		Remove duplicates		Form with the general information of the papers (399 papers).					
Jul 2008	Protocol improvement	Pilot data extraction		Data extraction form with the classification scheme refined.					
Aug 2008		Study selection and Data extraction upon the full text		Data extraction form completed with the classification of 215 primary studies.					
Feb 2009		Resolution of doubts in classification of primary studies in group		Revisited data extraction form with classification of the primary studies (193).					
Mar 2009		Data synthesis							
July 2009			Report the results of the SLR	Pilot report					

	Second phase								
Mar 2010	Mar 2010 Update of searches Data retrieval (until Dec 2009)								
Mar 2010	Study selection upon ab- stracts and titles	Form with the general information of the selected papers (140).							
	Retrieval of the files of the primary studies		Repository of papers 140).						
	Remove duplicates		Form with the general information of the papers (103).						
Feb 2010	Study selection and Data extraction upon the full text		Data extraction form completed with the classification of primary studies (103)						
Mar 2010	Resolution of doubts in classification of primary studies in group		Revisited data extraction with the classification of primary studies (73)						
Apr 2010	Data synthesis								
Jul 2010		Report the results of the SLR	Final report						

- B. Kitchenham, P. Brereton, D. Budgen, M. Turner, J. Bailey, and S. Linkman, "Systematic literature reviews in software engineering A systematic literature review," Information and Software Technology, vol. 51(1), pp. 7-15, 2009.
- Objetivo: "to review the current status of Evidence-based Software Engineering (EBSE) since 2004 using a tertiary study to review articles related to EBSE and, in particular, we concentrate on articles describing systematic literature reviews (SLRs).

- Questões:
 - RQ1. How much SLR activity has there been since 2004?
 - RQ2. What research topics are being addressed?
 - RQ3. Who is leading SLR research?
 - RQ4. What are the limitations of current research?
 - RQ4.1. Were the research topics limited?
 - RQ4.2. Is there evidence that the use of SLRs is limited due to lack of primary studies?
 - RQ4.3. Is the quality of SLRs appropriate, if not, is it improving?
 - RQ4.4. Are SLRs contributing to practice by defining practice guidelines?

Sources searched for years 2004-2007 (including articles up to June 30 2007). Total Year IST (Total) IST (Relevant) IST (Selected) ISS (Total) JSS (Relevant) JSS (Selected) IEEE SW (Total) IEEE SW (Relevant) IEEE SW (Selected) TSE (Total) TSE (Relevant) TSE (Selected) CACM (Total) CACM (Relevant) CACM (Selected) ACM Sur (Total) ACM Sur (Relevant) ACM Sur (Selected) TOSEM (Total) TOSEM (Relevant) TOSEM (Selected) SPE (Total) SPE (Relevant) SPE (Selected) ICSE (Total) ICSE (Relevant) ICSE (Selected) ISESE (Total) n/a ISESE (Relevant) n/a ISESE (Selected) n/a IET SW (Total) IET SW (Relevant) IET SW (Selected) EMSE (Total) EMSE (Relevant) EMSE (Selected) Metrics (Total) n/a n/a

Metrics (Relevant)

Metrics (Selected)

Total relevant

Total selected

Total

n/a

n/a

n/a

n/a

Table A1

Table 1 Selected journals and conference proceedings.

Source	Acronym
Information and Software Technology	IST
Journal of Systems and Software	JSS
IEEE Transactions on Software Engineering	TSE
IEEE Software	IEEE SW
Communications of the ACM	CACM
ACM Computer Surveys	ACM Sur
ACM Transactions on Software Engineering Methodologies	TOSEM
Software Practice and Experience	SPE
Empirical Software Engineering Journal	EMSE
IEE Proceedings Software (now IET Software)	IET SW
Proceedings International Conference on Software Engineering	ICSE
Proceedings International Symposium of Software Metrics	Metrics
Proceedings International Symposium on Empirical Software	ISESE
Engineering	

- Critérios de inclusão:
 - Systematic Literature Reviews (SLRs) i.e. literature surveys with defined research questions, search process, data extraction and data presentation, whether or not the researchers referred to their study as a systematic literature review.
 - We included articles where the literature review was only one element of the articles as well as articles for which the literature review was the main purpose of the article.
 - Meta-analyses (MA).

- Critérios de exclusão:
 - Informal literature surveys (no defined research questions; no defined search process; no defined data extraction process).
 - Papers discussing the procedures used for EBSE or SLRs.
 - Duplicate reports of the same study (when several reports of a study exist in different journals the most complete version of the study was included in the review).

Table A2 Car

Source	Authors	Reference	Year	Title	Reason for rejection
TSE	T. Mens and T. Tourwé	30(2), pp 126-139	2004	A survey of software refactoring	Informal literature survey
ΓSE	S. Balsamo, A. Di Marco, P. Inverardi	30(5), pp. 295-309	2004	Model-based performance prediction in software development	Informal literature survey
ET Software	S. Mahmood, R. Lai and Y.S. Kim	1(2), pp 57-66	2007	Survey of component-based software development	Informal literature survey
EEE Software	D.C. Gumm	23(5) pp. 45-51	2006	Distribution dimensions in software development	Literature survey referenced but not described in article
EEE Software	M. Shaw and P Clements	23(2) pp. 31-39	2006	The golden age of software Architecture	Informal literature survey
EEE Software	M. Aberdour	24(1), pp. 58-64	2007	Achieving quality in open source software	Informal literature survey
EEE Software	D. Damian	24(2), pp. 21–27	2007	Stakeholders in global requirements engineering: lessons learnt from practice	Informal literature survey
SS	E. Folmer and J. Bosch	70, pp. 61-78	2004	Architecting for usability: a survey	Informal literature survey
ST	Hochstein and Lindvall	47, pp. 643–656	2005	Combating architectural degeneration: a survey	Informal literature survey
ST	S. Mahmood, R. Lai, Y.S. Kim, J.H. Kim, S.C. Park, H.S. h	47, pp. 693-707	2005	A survey of component-based system quality assurance and assessment	Informal literature survey
FOSEM	J. Estublier, D. Leblang, A. van der Hoek, R. Conradi, G. Clemm, W. Tichy, D. Wiborg-Weber	pp. 383-430	2005	Impact of software engineering research on the practice of software configuration management	Informal literature survey
TOSEM	Barbara G. Ryder, Mary Lou Soffa, Margaret Burnett	pp. 431-477	2005	The impact of software engineering research on modern programming languages	Informal literature survey. No clear search criteria, no data extraction process.
ACM Surv	J. Ma and J. V. Nickerson	38(3), pp. 1-24	2006	Hands-on, simulated and remote laboratories: a comparative literature review	Not a software engineering topic

2006

A literature survey of the quality economics of defect-detection

techniques

Informal literature survey although quantitative data tabulated for

different testing techniques.

ISESE

S. Wagner

Quality assessment

- Each SLR was evaluated using the York University, Centre for Reviews and Dissemination (CDR) Database of Abstracts of Reviews of Effects (DARE) criteria [3]. The criteria are based on four quality assessment (QA) questions:
 - QA1. Are the review's inclusion and exclusion criteria described and appropriate?
 - QA2. Is the literature search likely to have covered all relevant studies?
 - QA3. Did the reviewers assess the quality/validity of the included studies?
 - QA4. Were the basic data/studies adequately described?

^[3] Centre for Reviews and Dissemination, What are the criteria for the inclusion of reviews on DARE? 2007. Available at http://www.york.ac.uk/inst/crd/faq4.htm, 2007 (accessed 24.07.07>).

- Quality assessment
 - QAI:Y (yes), the inclusion criteria are explicitly defined in the study, P (Partly), the inclusion criteria are implicit; N (no), the inclusion criteria are not defined.
 - QA2:Y, the authors have either searched 4 or more digital libraries and included additional search strategies or identified and referenced all journals addressing the topic of interest; P, the authors have searched 3 or 4 digital libraries with no extra search strategies, or searched a defined but restricted set of journals and conference proceedings; N, the authors have search up to 2 digital libraries or an extremely restricted set of journals.
 - QA3:Y, the authors have explicitly defined quality criteria and extracted them from each primary study; P, the research question involves quality issues that are addressed by the study; N no explicit quality assessment.
 - QA4:Y Information is presented about each study; P only summary information about primary studies is presented; N the results are not specified.
 - The scoring procedure was Y = I, P = 0.5, N = 0, or Unknown (i.e. the information is not specified). [...] When a question was scored as unknown we e-mailed the authors of the paper and asked them to provide the relevant information and the question re-scored appropriately.

Table 3 Quality evaluation of SLRs.

Study	Article type	QA1	QA2	QA3	QA4	Total score	Initial rater agreement
S1	SLR	Y	P	N	Y	2.5	4
S2	SLR	Y	P	P	P	2.5	4
S3	MA	Y	P*	P	P	2.5	4
S4	SLR	Y	P	N	P	2	4
S5	SLR	Y	Y	N	Y	3	4
S6	SLR	Y	P	N	Y	2.5	4
S7	SLR	Y	Y*	Y	Y	4	4
S8	SLR	Y	Y	P	Y	3.5	4
S9	SLR	Y	Y	N	Y	3	4
S10	SLR	P	N	P	P	1.5	4
S11	SLR	Y	Y	Y	Y	4	4
S12	SLR	Y	P^*	N	Y	2.5	4
S13	SLR	Y	N	P	P	2	4
S14	SLR	Y	Y*	N	Y	3	4
S15	SLR	P	Y	N	Y	2.5	3
S16	SLR	P	P	N	P	1.5	3
S17	SLR	Y	N	N	Y	2	2
S18	SLR	Y	N	N	N	1	4
S19	SLR	Y	P	N	P	2	3
S20	SLR	Y	Y	Y	P	3.5	3

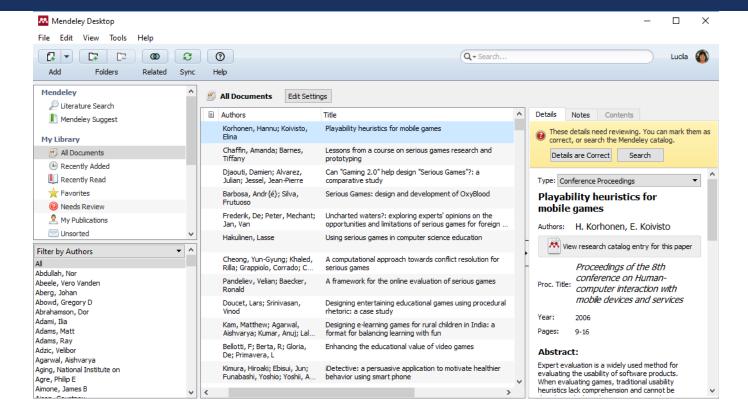
SOFTWARE DE GESTÃO DE BIBLIOGRAFIA

Softwares	EndNote Web	Mendeley	Zotero	F1000Workspace
Guias de uso	Sim	Sim	Sim	Sim
Como pode ser usado	Na web	No computador e na web	No computador e na web	Na web. No computador (em breve)
Custo	Grátis*	Grátis	Grátis	Grátis
Identifica registros duplicados	Sim	Sim	Sim	Sim
Estilos e padrões de Citações	Sim	Sim	Sim	Sim
Importa registros de bases de dados	Sim	Sim	Sim	Sim
Compartilha dados e bibliotecas	Sim	Sim	Sim	Sim
Permite anotações	Sim	Sim	Não	Sim
Integra processadores de texto	Microsoft Word	Microsoft Word LibreOffice	Microsoft Word LibreOffice	Microsoft Word Google Docs

Fonte: http://www.sibi.usp.br/apoio-pesquisador/gerenciadores-referencias-citacoes/

*A versão Desktop do EndNote é paga.

SOFTWARE DE GESTÃO DE BIBLIOGRAFIA



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- B.A. Kitchenham, "Guidelines for performing Systematic Literature Reviews in Software Engineering," Version 2.3, EBSE Technical Report, EBSE-2007-01, Software Engineering Group, School of Computer Science and Mathematics, Keele University, Keele, Staffs, ST5 5BG, UK and Department of Computer Science, University of Durham, UK, 2007.
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Hall, T. et al. "A Systematic Literature Review on Fault Prediction Performance in Software Engineering," Software Engineering, IEEE Transactions on , vol.38, no.6, pp.1276-1304, Nov.-Dec. 2012