

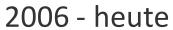
Wie schreibe ich mein Guided Research?

Und vor allem: Warum sollte ich?

Dr. Elmar Juergens, Roman Haas

In enger Abstimmung mit Dr. Angelika Reiser

2000 - 2006













2009 - heute

Grundlage: www.thesisguide.org

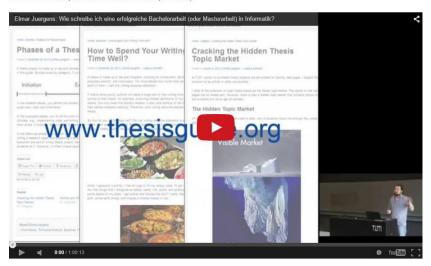
- Folien
- Video
- Detaillierte Essays
- FAQ

Preface

My thesis project was the most rewarding experience of my computer science studies. Unfortunately, many students suffer theirs as frustrating, tedious and with few opportunities for personal growth.

In this guide, I want to share the pitfalls and best practices from supervising 30+ thesis projects in computer science at TUM. I hope that it helps you write a great thesis and grow in the process. Start reading here.

Below is a video of a presentation in November 2014 (in German)



Presentation on Master's Thesis (English): 12.6., 18 Uhr, Interims 2

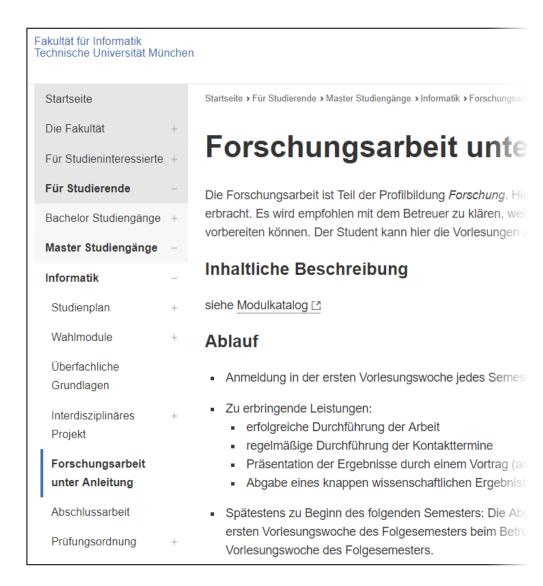
Vortrag Bachelorarbeit (Deutsch): 3.7., 18 Uhr, HS2

Agenda

- 1. Motivation
- 2. Anbahnung
- 3. Durchführung

Guided Research

- Eigene Forschungsarbeit & Vortrag
- Läuft genau ein Semester
- Erstreckt sich möglicherweise in die Semesterferien



Formalitäten

- Informatik, Data Engineering&Analytics
 Wirtschaftsinformatik, Informatik: Games Engineering,
 Biomedical Computing
- Anmeldung in 1. Vorlesungswoche
- Abgabe Ende Semester
- Nicht verlängerbar
- Man muss schon im Master eingeschrieben sein
- Keine Anerkennung aus dem Ausland (man kann aber mit TUM-Betreuer auch im Ausland schreiben)

Guided Research

Freiwillig

 10 ECTS (aber nicht weniger Arbeit)

 Konferenzvortrag oft deutlich nach Abgabe

• ca. 40/Semester

Bachelorarbeit

Verpflichtend

• 15 ECTS

 Mit Abgabe & Vortrag abgeschlossen

• ca. 200/Semester?

2011 - 2017





2017 - heute





2014: BA

2015: GR

2016-2017: MA

Learning to Rank Extract Method Refactoring Suggestions for Long Methods

 Gegeben: Eine Menge von Refactoring-Vorschlägen für lange Methoden

Gesucht: Ordnung der Vorschläge

Ansatz: Machine Learning

Resultat

which is described in more detail by Jarveim and Kekatainen gg, and measures the goodness of the ranking list (obtained by the application of the scoring function). Mistakes in the top-most ranks have a bigger impact on the DCG measure value. This is useful and important to us because we will not suggest all possible refactoring candidates, but only the highest-ranked ones. Given all possible reflectoring candidates, but only the highest-randed ones. Given a beam nutried, m_i with reflectoring candidates, C_i , suppose that v_i is the DCG at position k is defined as $DCG(k) = \sum_{i \in I \cap I \cap I} G(I) f(I) f(I)$. DCG at position k is defined as $DCG(k) = \sum_{i \in I \cap I \cap I} G(I) f(I) f(I)$, where G(I) = i is representing gain function, D(I) = i is a position direction candidate, $c_{i,j}$ is v_i . We set G(I) = i the position of reflectoring candidates $c_{i,j}$ is v_i . We set G(I) = i the position of reflectoring candidates $c_{i,j}$ is v_i . We set G(I) = i the DCG that a perfect ranking would have obtained. Therefore, the NDCG for a conditate ranking would have be followed by where the NDCG of G(I) = i candidate ranking would have be followed by where the NDCG of G(I) = i and G(I) = i is the position of G(I) = i in Gobtained by perfect rankings. In our evaluation, we consider the NDCG value of the last position so that all ranks are taken into account. See Hang [4] for

We discuss our approach to improve the scoring function in order to find the best suggestions for extract method refactoring.

1.3.1 Extract Method Refactoring Candidates

In our previous work \mathfrak{F} , we presented an approach to derive extract method refactoring suggestions automatically for long methods. The main steps are: generating valid extract method refactoring candidates, ranking the candidates, and pruning the candidate list. ites, and pruning the candidate list.

In the following, a refactoring candidate is a sequence of statements that

In the following, a refactoring analolate is a sequence of statements that can be extracted from a method into a new method. The remainder is the method that contains all the statements from the original method after ap-plying the refactoring, plus the call of the extracted method. The suggested refactorings will help to improve the residuality of the code and reduce its complexity, because these are main reasons for developers to initiate code

red refactoring candidates from the control and data flow gran we terrived relatering candidates from the control and data flow graph of a method using the Continuous Quality Assessment Toolist (ConQAT¹) open source software. We filtered out all invalid candidates, that is those that violate preconditions that need to be fulfilled for extract method refactoring (for details, see [12]). The second step of our approach was to rank the valid

Table 1.2: Coefficients of Variation for Learned Coefficients



RQ2: How stable are the learned scoring functions?

Table \square shows the average, minimum and maximum coefficients of variation (CV) for the learned coefficients for ListMLE and for SVM-rank. Small CVs indicate that in relative terms the results from the single runs in the 10-cross fold procedure did not vary a lot, whereas big CVs indicate big differences between the barrend coefficients. As the CVs of the single features from ListMLE are much smaller than those of SVM-rank, the coefficients of from Lastalle are much smanner than those of Sybi-rank, the coefficients of ListMLE are much more stable compared with SyM-rank (SyM-rank showe coefficients with a big variance between the single iterations of the validation process; that is, despite the heavy overlapping of the training sets, the learned coefficients vary a lot and can hardly be generalized.

Figure 4 shows a plot of the averaged NDCG measure for all 12 runs. Remember that we actually had three length measures, and we considered the absolute and the relative values for all of them. As the reduction of the number of statements led to a higher NDCG for ListMLE (which outperformed SVM-rank with respect to NDCG), we chose to use it as our length mea-sure. In practice, that seems sensible since, while LoC also count empty and commented lines, the number of statements only counts real code.



Fig. 1.4: Averaged NDCG When Considering Only One Length Measure

by hitering out very similar candidates, in order to obtain essentially different

suggestions.

In the present paper, we focus on the ranking of candidates, and especially
on the scoring function that defines that ranking.

We aimed for an optimized scoring function that is capable of ranking extract method refactoring candidates, so that top-most ranked candidates are most likely to be chosen by developers for an extract method refactoring. The scor-ing function is a linear function that calculates the dot product of a coefficient

min function is a linear nunction that excess, f_i for each ground configuration vector, c_i and a feature value vector, f_i for each candidate. Candidates are arranged in decreasing order of their score. In this paper, we use a basis of 20 features for the scoring function. In the following, we give a short overview about the features. There are three categories of features complexity-related features, parameters, and structural categories of features complexity-related features, parameters, and structural

candidates $(C_1 \text{ and } C_2)$ that were chosen from the example method given in Figure 1.1. The gray area shows the nesting area, which is defined below. The white numbers specify the nesting depth of the corresponding statement.



We mainly focused on reducing complexity and increasing readability. For aplexity indicators, we used length, nesting and data flow information. For

on the ranking performance and removed it in the next iteration. A scoring function that only considered the number of input parameters and length and nesting area reduction still had an average NDCG of 0.885.

RQ4: How does the learned scoring function compare with our manually

The scoring function that we presented in a chieved a NDCG of 0.891,

1.4.4 Discussion

Our results show that, in the initial run of the learning to rank tools, features indicating a reduction of complexity are much more relevant for the ranking, and therefore have a comparatively high impact. Furthermore, the stability of ListMLE is higher on our data set than the stability of SVM-rank. For SVM-rank there is a big variance in the learned coefficients, which might also

be a reason for the comparatively lower performance measure values. The results for RQ3 show that it is possible to achieve a great simplification without big reductions in the ranking performance. The biggest influences on the ranking performance were the reduction of the number of statements, the reduction of nesting area (both are complexity indicators), and the number

mput parameters.

Manual improvement As already mentioned, the learned scoring functions Measust improvement As aircoxy mentioned, the sarinot socining functions and into outperform the manually determined scoring function from our previous work. Obviously, the learning tools were not able to find optimal coefficients for the features. To improve the socining function from our previous work, we did manual experiments that were influenced by the results of LEAIMLE and SWAI-maik, and evaluated the results using the whole learning

We were able to find several scoting functions that had only a handful features and a better analog performing, that our scoting function from previous word (column Previous in Table 1.3, In addition to the three most all (1), we also took the comment features (θ -14-17) into consideration. The main differences between the previous scoting function and the manually involved one from this paper are the length relaction measure, the omission of Day that the consistence of the contract of t We were able to find several scoring functions that had only a handful

with the learned coefficients from this paper

Learning to Rank Extract Method Refactoring

Suggestions for Long Methods

Roman ${\rm Haas^1}$ and Benjamin ${\rm Hummel^2}$

- ¹ Technical University of Munich, Lichtenbergstr. 8, Garching, Germany roman base@twn.de.
- roman.naassutum.de

 ² CQSE GmbH, Lichtenbergstr. 8, Garching, Germany

Summary. Extract method refactoring is a common way to shorten long methods in software development. It improves code modability, reduces complexity, and is not software development. It is more modability, reduces complexity, and is refrainful from applying it because blendifying an appropriate set of statements that can be extracted into a new method is error-genom and time-communing. In a previous way, we presented a remode that could be useful on atomatical to the contracted into a new method is error-genom and time-communing. In a previous way, we presented a method that could be ungagarden for developers. The expression fiels on a scring interaction that ranks all underfactoring positions (see that a similar developers) and the conduction of the conduct for developers, there is a lack of understanding of the scoring function. In this p per, we present research on the single scoring features, and their importance for the ranking capability. In addition, we evaluate the ranking capability of the suggested scoring function, and derive a better and less complex one using learning to rank

 ${\bf Key\ words}:$ Learning to Rank, Refactoring Suggestion, Extract Method Refactoring, Long Method

A long method is a bad smell in software systems 2. and makes code harder to

A nong metrod as a dat sites in software systems <u>B</u>, and masses once namer to read, understand set als straight-forward way of slowering long methods is to extract parts of them into a new method. This procedure is called "extract method reflectoring," and its the most often used reflectoring in practic <u>B</u>. The process of extracting a method can be partially automated by using modern development environments, such as Eclipse IEE or Intellia IDEA, that can put a set of extractable statements into a new method. However, developes will me to the full this etc. of statements by themselves, which takes

reduction of the method length (with respect to the longest method after the refactoring). We considered length based on the number of lines of code (LoC,) on the number of tokens, and on the number of statements — all of them as-both absolute values and relative to the original method length. We consider highly nested methods as more complex than moderately

nested ones, and use two features to represent the reduction of nesting: renested ones, and use two features to represent the reduction of nesting; reduction of nesting depth and reduction of nesting area. The sesting area of a method with statements S_1 to S_{α_1} , each having a nesting depth of d_{S_1} is defined to be $\sum_{i=1}^{n} d_{S_i}$. The idea of nesting area connect from the area alongoide the single statements of pretty printed code (see the gray areas in Figure 1_3). Dataflow information can also indicate complexity. We have features representations of the contraction of the

resenting the number variables that are read, written or read and written

We considered the number of input and output parameters as an indicator of we consourced use minuter of input and output parameters as an inscinctor or data coupling between the original and the extracted methods, which we want to keep low using our suggestions. The more parameters that are needed for a set of statements to be extracted from a method, the more the statements will depend on the rest of the original method.

Finally, we have some features that represent structural aspects of the code A design principle for code is that methods should process only one thing [8] Methods that follow this principle are easier to understand. As developers often put blank lines or comments between blocks of code that process some thing else, we use features representing the existence and the number of blank rang case, we are returns representing the existence and the number of name or commented lines at their beginning, or at their end. Additionally, for first statement of the candidate, we check to see whether the type of the preceding is the same; and for the last statement, we check to see whether the type of the following statement is the same. Our last feature considers a structural complexity indicator — the number of branching statements in the candidate.

1.3.3 Training and Test Data Generation

To be able to learn a scoring function, we need training and test data. We no les alors to sentra a securing nunction, we next training and treet data, we interest the securing training and treet data, we detected the respectivents of the securing training to the securing training tra method length.



1.5 Threats to Validity

Learning from data sources that are either too similar or too small means that there is a chance that no generalization of the results is possible. To have enough data to enable us to learn a scoring function that can rank extract method refactoring candidates, we chose 13 Java open source projects from various domains and from each project we randomly selected 15 long methods various domains and review the near project we randomly selected 15 long methods. We manually review the near methods, and filtered out those that were not appropriate for the extract method. From the 17r ensaining long methods, we randomly chose five to mine valid refactoring suggestions, depending on the method length. We ensured that our learning data did not contain any code closes to avoid learning from redundant data.

The manual ranking was performed by a single individual, which is a threat to validity since there is no commonly agreed way on how to shorten a long method, and therefore no single ranking criterion exists. The ranking was done very carefully, with the aim of reducing the complexity and increasing the readability and understandability of the code as much as possible; so, the scoring function should provide a ranking such that we can make further refactoring suggestions with the same aim. We relied on two learning to rank tools, which represents another threa

We relied on two learning to rank tools, which represents another threat to validity. The learned scoring functions heavily depend on the tool. As the learned scoring functions vary, it is necessary to have an independent way of evaluating the ranking performance of the learned scoring functions. We used the widely used measure NDCG to evaluate the scoring functions, and applied a 10-fold cross validation procedure to obtain a meaningful evaluation of the

— no-non-troes vanistation procedure to obtain a meaningful evaluation of the ranking performance of the learned scoring function.

A threat to external validity is the fact that we derived our learning data from 13 open source Java systems. Therefore, results are not necessarily gen-eralizable.

1.6 Related Work

In our previous work (3), we presented an automatic approach to derive

menced developers sometimes select statements that cannot be extracted (for

renced servingers sometimes seem statements that damot ne extracter (or the property of the property). The seem are required, but are not supported by the programming and property. The property of the programming the property of the The reflectoring process can be improved by suggesting to developers which statements could be extracted into a new method. The literature presents several approaches that can be used to find extract method refactorings. In a previous work, we suggested a method that could be used to automatically find good extract method refactoring candidates for long Java methods
Our first prototype, which was derived from manual experiments on several NAME HAVE PROPERTY. WHEN WAS GETTING ITS MANUAL EXPERIMENTS ON SEVERAL Open Source systems, implemented a scoring function to rank refactoring candidates. The result of our evaluation has shown that this first prototype finds suggestions that are followed by experienced developers. The results of our first prototype have been implemented in an industrial software quality analism.

Problem statement. The scoring function is an essential part of our an Problem statement. The scoring function is an essential part of our ap-proach to derive extract method refactoring suggestions fro long methods. It is decisive for the quality of our suggestions, and also important for the complexity of the implementation of the refactoring suggester. However, it is currently unclear how good the scoring function actually performs in ranking refactoring suggestions and how much complexity will be needed to obtain useful suggestions. Therefore, in order to enhance our work, we need a deeper

useful suggestions. Therefore, in order to enhance our work, we need a deeper understanding of the scoring function.

Contribution: We do further research on the scoring function of our ap-proach to derive extract method refactoring suggestions for long Java meth-ods. We use learning to rank techniques in order to learn which features of the scoring function are relevant, to get meaningful refactoring suggestions, and to keep the scoring function as simple as possible. In addition, we evaland to acept less occuring mucuon as simple as possione: in dominon, we eval-uate the ranking performance of our previous scoring function, and compare it with the new scoring function that we learned. For the machine learning setting, we use 177 training and testing data sets that we obtained from 18 well-known open source systems by manually ranking five to nine randomly selected valid refactoring candidates.

In this paper, we show how we derived better extract method refactoring

suggestions than in our previous work using learning to rank tools

1.2 Fundamentals

We use learning to rank techniques to obtain a scoring function that is able to rank extract method refactoring candidates, and use normalized discounted cumulative gain (NDCG) metrics to evaluate the ranking performance. In this section, we explain the techniques, tools and metrics that we use in this paper.

mto the code. Incretore, in the pruning step of our approach, we usually hiter out candidates that need more than three input parameters, thus avoiding the "long parameter list' mentioned by Fowler (2). To avoid learning that too many input parameters are bad, we considered only candidates that had less than We ranked the selected candidates manually with respect to complexity

We ranked the selected candidates manually with respect to complexity reduction and readability improvement. The higher the ranking we gave a candidate, the better the suggestion was for us. Some of the randomly selected methods were not suitable for an extract method refactoring. That was most commonly the case when the code would not benefit from the extract method, but from other refactorings, in addition, for some methods, we could not derive a meaningful ranking because there were only very weak candidates. That is why we did not use 18 of the 195 randomly selected long methods to learn our scoring function.

In this section, we present and evaluate the results from the learning proce-

1.4.1 Research Questions

RQ1: What are the results of the learning tools? In order to get a scoring function that is capacity or running the variety of the cardidates, we decided to use two learning to rank tools that implement different approaches, and that had performed well in previous studies.

RQ2: How stable are the learned scoring functions? To be able to derive implications for a real-world scoring function, the coefficients of the learned scoring function should not vary a lot during the 10-fold cross evalu-

RO3: Can the scoring function be simplified? For practical reasons it is useful to have a scoring function with a limited number of features.

Additionally, reducing the search space may increase the performance of the learning to rank tools – resulting in better scoring functions.

RQ4: How does the learned scoring function compare with our man requirements and the rearried scoring function compare with our manually determined one? In our previous work, we derived a scoring function by manual experiments. Now we can use our learning data set to evaluate the ranking performance of the previously defined scoring function, and to compare it with the learned one

On http://in.tum.de/-haas/12r_enrc_data.zip we provide our rankings and the corresponding code bases from which we generated the refactoring candidates.

the present work, we have put the scoring function on more solid ground by learning a scoring function from many long methods, and manually ranker

renctoring suggestions.

In the literature, there are several approaches that learn to suggest the most beneficial refactorings — usually for code clones. Wang and Godfrey [19] propose an automated approach to recommend clones for refactoring by training a decision-tree based classifier, C4.5. They use 15 features for decision-tree nodel training, where four consider the cloning relationship, four the context moint training, where noir consister use consign relationship, some the context of the claus, and seven relate to the code of the close. In the present paper, of the context of the context of the code of the close. In the present paper, we have focused on long methods. Moscale and a different aim: intended of closes, we have focused on long methods. Moscale and long association rules. Their idea is that closes that are often changed together to maintain rules. Their idea is that closes that are often changed together to maintain a similar functionality are worthy considiates for refactoring. Their prototype

tool. MARC identifies clones that are often changed together in a similar was tool, MARC, identifies coines that are often changed together in a similar way, and mines association rules among these. A major result of their evaluation on thirteen software systems is that closes that are highly ranked by MARC are important reflectoring possibilities. We used learning to rank techniques to find a scoring function that is capable of ranking extract method refactoring candidates from long methods.

1.7 Conclusion and Future Work

In this paper, we have presented an approach to derive a scoring function that is able to rank extract method refactoring suggestions by applying learning to rank tools. The scoring function can be used to automatically rank extract to rank tools. The scoring function can be used to automatically rank extract method refactoring candidates, and thus present a set of best refactoring sug-gestions to developers. The resulting scoring function needs less parameters than previous scoring functions but has a better ranking performance. In the future, we would like to suggest sets of refactorings, especially those

We would also like to find out whether the scoring function provides good

suggestions for object-oriented programming languages other than Java and whether other features need to be considered in that case.

Thanks to the anonymous reviewers for their helpful feedback. This work was mains to the anonymous reviewers for their perput nectooks. This work was partially funded by the German Federal Ministry of Education and Research (BMBF), grant "Q-Effekt, 01IS15003A". The responsibility for this article lie

Learning to rank refers to machine learning techniques for training the model

in a ranking task [4].

There are several learning to rank approaches, where the pairwise and the There are several learning to rank approaches, where the pairwise and the interior approach unally perform better than common pointwise regression there is a second their given ranks ('ground truth'), whereas in our case the litterior approach learns from the list, of all given rankings of refactoring suggestions for a long method. Liu et al. [8] pointed out that the pairwise and the litterior approach learns play perform better than the pointwise approach. Therefore, we do not rely on a pointwise approach but use pairwise and listwise learning

we on one rety on a possivese approach out use pairwise and instwise scatting Qin et al. $\frac{1}{12}$ constructed a benchmark collection for research on several learning to rank tooks on the Learning To Rank (LETOR) data set. Their results support the hypothesis that pointwise approaches perform badly com-pared with pairwise and listwise approaches. In addition, listwise approaches parter with pairwise stan move approxime, an administration, inswise approximation and the pairwise on our data set showed that SVM-rank may lead us to interesting results. We set the parameter ~ 4 to 500 as a trade-off between time consumption and learning performance. Besides SVM-rank, we used a listwise learning to rank tool, ListMLE by

Designe Sy Al-rainc, we used a interwise learning to rank tool, Listallie by Xia et al. [2]. In their evaluation, they showed that ListAILE performs better than ListNet by Cap et al. [1], which was also considered to be good by Qin et al. Lan et al. [2] improved the learning capability of ListAILE, but did not provide binaries or source code; so we were unable to use the improved

version.

ListMLE needs to be assigned a tolerance rate and a learning rate. In
a series of experiments we performed, we found that the optimal ranking
performance on our data set was with a tolerance rate of 0.001 and a learning

The learning process consisted of two steps: training and testing. We applied cross-validation $[\underline{16}]$ with 10 sets, that is, we split our learning data into 10 sets of (nearly) equal size. We performed 10 iterations using these sets, where nine of the sets were considered to be training data and one set was used as Test data is used to evaluate the ranking performance of the learned scoring

function by comparing the grade of a refactoring candidate determined by the learned scoring function with its grade given by the learning data. We use NDCG metric to compare different scoring functions and their performances.

To answer RO1 and RO2, we used the learning to rank tools SVM-rank and Io answer RQ1 and RQ2, we used the learning to rank tools SYM-rank and LtsMLE to perform a 10-fold cross validation on our training and test data set of 177 long methods, and a total of 1,185 refactoring candidates. We li-lustrate the stability of the single coefficients by using box plots that show how the coefficients are distributed over the ten iterations of the 10-fold cross

To answer RO3, we simplified the learned scoring function by omitting reatures, where the selection criterion for the omitted features is preservation of the ranking capability of the scoring function. Our initial feature set contained six different measures of lengths for the sake of simplicity, we would like to have only one measure of length in our scoring function. To find out which measure best fit in with our training set, we re-ran the validation procedure (again using ListMEE and SVM-rank), but this time with only one coclure (again using ListMEE and SVM-rank). length measurement, using each of the length measurements one at a time We continued with the feature set reduction until only one feature was left.

The following paragraphs answer the research questions

RO1: What are the results of the learning tools?

Figures 1.2 and 1.3 show the results of the 10-fold cross validation for ListMLE and for SVM-rank, respectively. For each single feature, i, there is a box plot of the corresponding coefficient, c_i .



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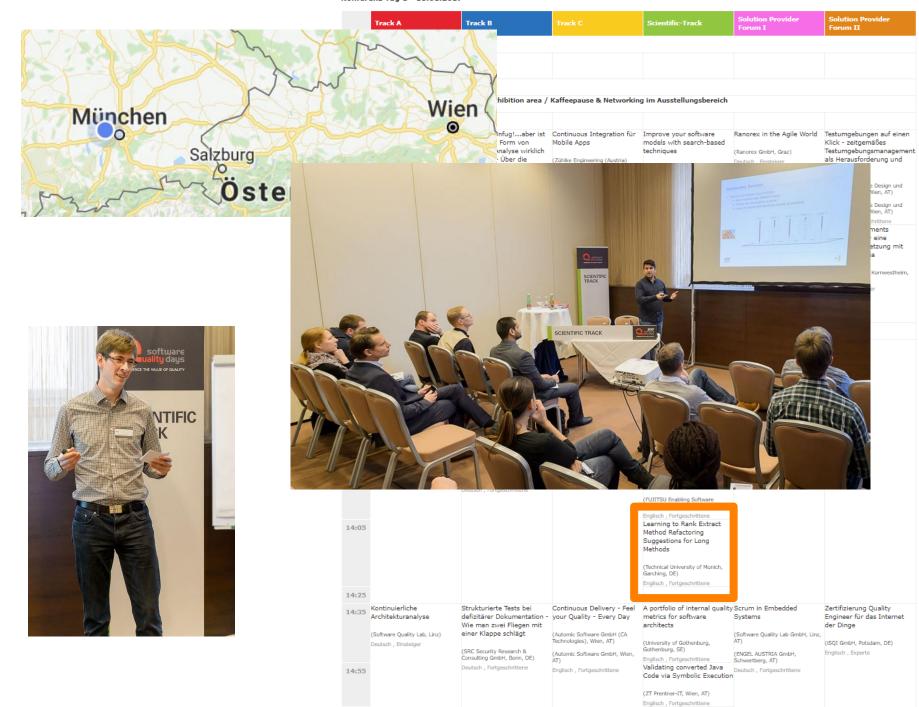
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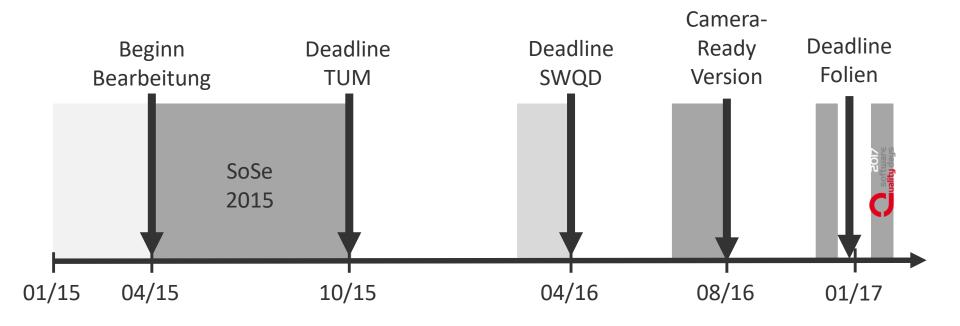
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Zeitlicher Überblick



Delta zu Alternativen im Masterstudium

- Mehr Freiheiten
 - Themenrichtung
 - Eigene Forschung mit abgestimmter Methodik
 - Eigenes Tempo und eigener Zeitplan
- Höhere Anforderungen an Selbstorganisation
- Mehr Möglichkeiten für persönliches Wachstum

Persönliches Fazit

- GR war über das gesamte Masterstudium auf meinem "mentalen Stack"
- GR hat mich aus meiner Komfortzone geholt
- Ich habe richtige Forschung betrieben
- Ich habe die Forschungscommunity kennengelernt
- Ich würde das GR nochmal machen

Finanzierung

Zu deckende Kosten: 1k€ bis 5k€

- Anreise und Übernachtung
- Konferenzgebühr

Finanzierungsquellen (oft Mischfinanzierung)

- Reisekostenzuschuss der Fakultät
- Lehrstühle
- DAAD Stipendien
- CQSE

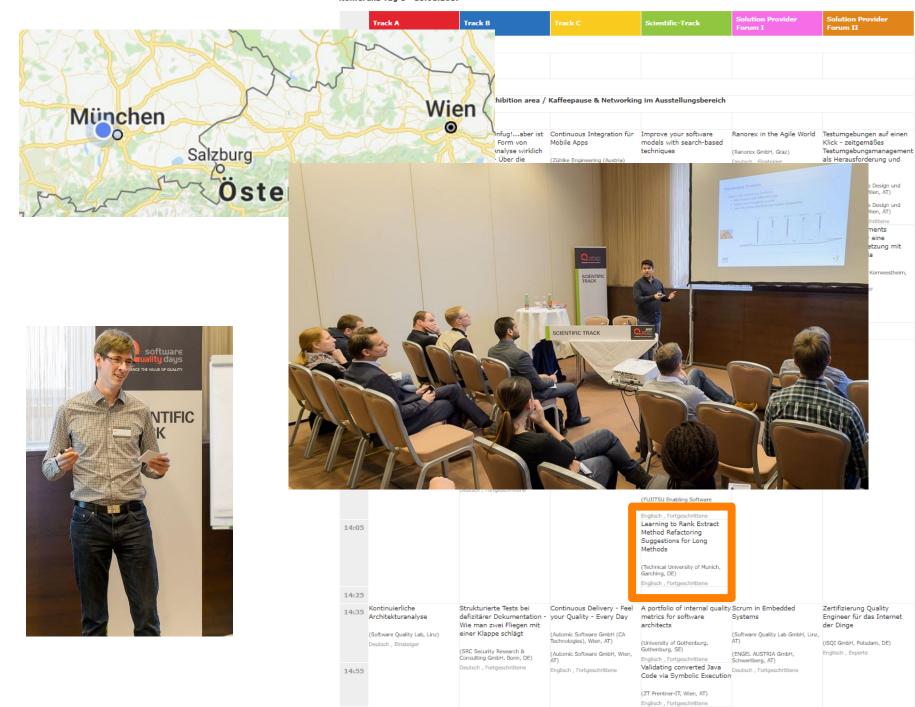
Entscheidungsprozesse dauern oft lange -> Früh kümmern

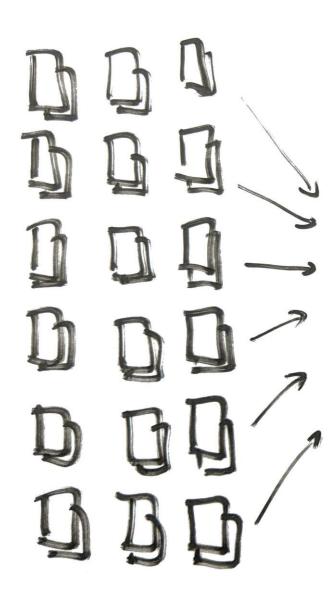
Agenda

1. Motivation

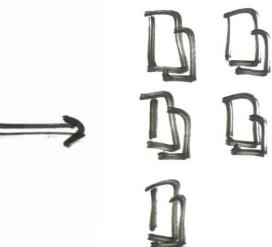
2. Anbahnung

3. Durchführung









Hackordnung



Konferenz 10%-25%

Acronym	Full Name						Date	
CHASE	11th International Workshop on Cooperative and Human Aspects of Software Engineering							
CSI-SE	5th Internation	al Workshop	on Crowd Sour	cing in Software	Engineering		27-May	
MET	International Workshop on Metamorphic Testing							
DAICE				SQUADE	SE4606			
RAISE	SoHeal	MiSE	GE	AST	SE4COG	SER&IP	SE4Science	
SEAD	WETSEB	SEHS	RoSE		FairWare	SESoS	RET	
SEsCPS	GREENS	CESI	SEFAIAS	SBST	RCoSE	GI	SEEM	

Workshop 40%-60%

Ziel: Einreichung auf Workshops

RA RZ R3 RFR **Mehrere Monate** Porcion Accept/Reject

Call for Papers

12th International Workshop on Software Clones (IWSC 2018)

Co-located with the 25th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018) March 20, 2018, Campobasso, Italy

Software clones are often a result of conving and pasting as an act of adultor reuse by programmers, and can occur at many levels, from simply

statement sequences to blocks, models, requirements or architectoday.

IWSC series of events has provid IWSC aims to bring researchers a particular, we expect the in-depth about IWSC 2018 are here on thi

TOPICS OF INTEREST:

Topics of interest include but not

- Use cases for clones and c
 - · Experiences with clones an
- Types and nature of clones
 Causes and effects of clone
- Causes and effects of clon
 Techniques and algorithms
- Clone and clone pattern vis
- Tools and systems for determination
- Applications of clone detection
- System architecture and cl
- Effect of clones to system
 Clone analysis in families of
- Measures of code similarit
- Economic and trade-off mo
 Evaluation and benchmark
- · Licensing and plagiarism is
- Clone-aware software desi
- · Refactoring through clone
- Higher-level clones in mode
- Clone evolution and variation
 Role of clones in software:
- Note of clottes in softwar

SUBMISSION:

Papers must conform to the <u>IEEE proceedings paper format guidelines</u>. If the paper is accepted, at least one author must attend the workshop and present the paper. Accepted papers will be published in the <u>IEEE Xplore Digital Library</u> along with the SANER proceedings.

All submissions must be in PDF and must be submitted online by the deadline via the IWSC 2018 EasyChair conference management system.

Submit your papers here >>> EasyChair <<<

IMPORTANT DATES:

- Abstract submission deadline: January 19, 2018 AoE
- Paper submission deadline: January 26, 2018 AoE
- · Notifications: February 16, 2018
- Camera Ready deadline: ** February 22, 2018 **
- Workshop day: March 20 2018

GENERAL CHAIR:

TBD

PROGRAM CO-CHAIRS:

- . Ying (Jenny) Zou (ying.zou@queensu.ca), Queen's University, Canada
- Matthew Stephan (stephamd@miamioh.edu), Miami University, USA

STEERING COMMITTEE:

- James R. Cordy, Queen's University, Canada
- · Katsuro Inoue, Osaka University, Japan
- · Rainer Koschke, University of Bremen, Germany

PAPERS SOUGHT:

Each paper will be reviewed by at least three members of the program committee following a full double-blind process. Authors must adhere to SANER's double blind guidelines - http://saner.unimol.it/restrack. The following types of papers are sought:

- · Full papers (7 pages maximum)
- Position papers (2 pages maximum)
- Tool demonstration papers (4 pages maximum)

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IWSC 2018 Registration	F	Program Committee	
Call for Papers	Name	Institiution	Country
12th International Works Co-located with the 25th IEEE In	Toshihiro Kamiya	Shimane University	Japan
March 20, 2018, Campobasso, It	Daqing Hou	Clarkson University	USA
Software clones are often a result of a statement sequences to blocks,	Tien Nguyen	University of Texas at Dallas	USA
models, requirements or archited today.	Nils Göde	CQSE GmbH	German
IWSC series of events has provid	Jens Krinke	University College London	UK
IWSC aims to bring researchers Al particular, we expect the in-depth	Otavio Lemos	ICT-UNIFESP	Brazil
about IWSC 2018 are here on thi	Manishankar Mondal	University of Saskatchewan	Canada
TOPICS OF INTEREST:	Ravindra Naik	Tata Consultancy Services	India
Topics of interest include but not Use cases for clones and c	Robert Tairas	Vanderbilt University	USA
Experiences with clones an Types and nature of clones	Minhaz Zibran	University of New Orleans	USA
Causes and effects of clon Techniques and algorithms Clone and clone pattern vis	Eunjong Choi	Nara Institute of Science and Technology	Japan
Tools and systems for deta Applications of clone detec	Michael Godfrey	University of Waterloo	Canada
System architecture and cl Effect of clones to system Clone analysis in families cl	Yoshiki Higo	Osaka University	Japan
Measures of code similarit Economic and trade-off mc	Foutse Khomh	Ecole Polytechnique de Montréal	Canada
Evaluation and benchmark Licensing and plagiarism is Clone-aware software desi	Nicholas A. Kraft	ABB Corporate Research	USA
Refactoring through clone Higher-level clones in mode	Chanchal Roy	University of Saskatchewan	Canada
Clone evolution and variatil Role of clones in software:	Hitesh Sajnani	Microsoft	USA
PAPERS SOUGHT:	Suresh Thummalapenta	Microsoft	USA
Each paper will be reviewed by at leas double blind guidelines - http://saner.u	Xioyin Wang	University of Texas at San Antonio	USA
Full papers (7 pages maximum) Position papers (2 pages maxim	Norihiro Yoshida	Nagoya University	Japan

Country

Germany

Anforderungen an Thema

- Gibt es ein klares Problem Statement?
- Kann ich Alternative Lösungen objektiv bewerten?

Warum?

- Entscheidungsfindung während Bearbeitung
- Einfacher, Betreuer zu überzeugen
- Einfacher, PC zu überzeugen

Noch wichtiger für GR, als für BA oder MA.

Mehr Infos: www.thesisguide.org



Anforderungen an Betreuer

- Veröffentlichungserfahrung notwendig
- Idealerweise auf geplantem Workshop
- Quellen: scholar.google.com, DBLP, persönlich Webseite.



TITEL 🖽	:	ZITIERT VON	JAHR
	s matter? senboeck, B Hummel, S Wagner ing, 2009. ICSE 2009. IEEE 31st International Conference on	375	2009
M Herrmannsdoerf	ing coupled evolution of metamodels and models fer, S Benz, E Juergens nce on Object-Oriented Programming, 52-76	198	2009
F Deissenboeck, B	in automotive model-based development Hummel, E Jürgens, B Schätz, S Wagner, JF Girard, 30th international conference on Software engineering	172	2008



Agenda

- 1. Motivation
- 2. Anbahnung
- 3. Durchführung

Sicht eines BA/MA-Betreuers



- Regelmäßiges Treffen
- Treffen nach Bedarf

1	Izautino P. Oliveira and Renata Souza	Stories for New Products: A Research on the Use of Storytelling in Requirements Identification in Software Engineering	0 [j 9	Sep 03, 04:18
2	Hans Jochen Scholl, William Menten-Weil and Timothy S. Carlson	Artifact Evaluation with TEDSrate	0 _	7 9	Sep 19, 21:10
3	Celal Ziftci and Jim Reardon	Who Broke the Build? Automatically Identifying Changes That Induce Test Failures In Continuous Integration at Google Scale	0 [j 9	Sep 27, 20:32
4	Uma Viswanath and Ramya Shyama Palakodati	Measuring Leanness in a lean software organization: A model to gauge the lean implementation using the 3 dimensional approaches of Process, Product, and People	0	(Oct 05, 04:09
5	Sofia Modesto and Miguel Mira Da Silva	Gamification to Increase Scrum Adoption	0 [j	Oct 14, 15:51
6	Guillermo Rodriguez, Alvaro Soria and Marcelo Campo	A Case-based Reasoning Approach to Reuse Quality-driven Design Alternatives in Service-Oriented Architectures	0 /	j	Oct 14, 19:08
7	Andrea Arcuri	Back After 5 Years In Industry As Software Engineer / Tester: We Need Usable Automated Test Generation	0 /	j	Oct 15, 16:58
8	Christof Ebert and Michael Weyrich	Architecture Evolution for the Internet of Things	0 /	j (Oct 16, 05:59
9	Andrew Ko	A Three-Year Participant Observation of Software Startup Software Evolution	0 [j	Oct 17, 22:08
10	Torvald Mårtensson, Pär Hammarström and Jan Bosch	Continuous Integration Is Not About Build Systems	0 /	j	Oct 19, 19:43
11	Junjie Wang, Qiang Cui, Song Wang and Qing Wang	Domain Adaptation for Test Report Classification in Crowdsourced Testing	0 [-	Oct 20, 08:09
12	Fernando Pinciroli, Jose Luis Barros Justo and Raymundo Forradellas	Aspect-Oriented Business Process Modeling Approaches: An assessment of AOP4ST	0 /	j	Oct 20, 13:32
14	Paul L. Li, Andrew J. Ko and Andrew Begel	Expert Non-Software-Engineers's Perspectives on Why Software Engineering Teams Succeed or Fail	0 [j	Oct 20, 16:10
15	Balbir Barn, Souvik Barat, Tony Clark and Vinay Kulkarni	Reviewing the Software Engineering Nexus of Current Research, Practice, and Future Prospects	0 [j	Oct 21, 14:00
16	Saad Mubeen, Mikael Sjödin, Harold Lawson, John Lundbäck, Mattias Gålnander and Kurt-Lennart Lundbäck	Provisioning of Predictable Embedded Software in the Vehicle Industry: The Rubus Approach	0 [j	Oct 22, 19:47
17	Christopher Theisen, Brendan Murphy, Kim Herzig and Laurie Williams	Risk-Based Attack Surface Approximation: How Much Data is Enough?	0 /	j (Oct 23, 03:16
18	Daniel Russo, Paolo Clancarini, Tommaso Falasconi and Massimo Tomasi	Software Quality Concerns in the Italian Bank Sector: the Emergence of a Meta-Quality Dimension	0 _	i	Oct 23, 19:51
19	Akond Rahman, Asif Partho, David Meder and Laurie Williams	Which Factors Influence Practitioners' Usage of Build Automation Tools?	0 /	7 (Oct 24, 00:43
20	Cuiyun Gao, Yichuan Man, Hui Xu, Jieming Zhu, Yangfan Zhou and Micheal R. Lyu	Assist Developers in Mobile Advertising via User Reviews and Case Studies	0 /	- 7 (Oct 24, 17:49
21	Zhitao Hou, <u>Hongyu Zhang</u> , Haidong Zhang and <u>Dongmei Zhang</u>	MetroEyes: A Visual Analytics System for Exploring Multi-Dimensional Data	0 /	-	Oct 25, 00:49
	S M Sohan, Craig Anslow and Frank Maurer	Automated Example Oriented REST API Documentation at Cisco	0		Oct 25, 05:34
23	Terese Besker, Antonio Martini and Jan Bosch	Time to Pay Up - Technical Debt From a Software Quality Perspective	0 -	;	Oct 25, 08:53
24	Dale Blue, Orna Raz, Rachel Tzoref-Brill, Paul Wojciak and Marcel Zalmanovici	Novel applications of combinatorial testing in validating software design	0 -	-	Oct 25, 12:40
	Jingzheng Wu, Shen Liu, <u>Shouling Ji</u> , Mutian Yang, Yanjun Wu, Yongji Wang and Tianyue Luo	Exception Beyond Exception: Crashing Android System by Trapping in "uncaughtException"	0 7		Oct 25, 14:28
26	Charles Weir, Awais Rashid and James Noble	Dialectical Security: Challenging the Developers of Mobile and IoT Software	0		Oct 25, 16:38
27	Samuel Marks and Andrew White	Code-generation driven development	0 /		Oct 25, 18:35
28	Daniel Izquierdo-Cortazar, Nelson Sekitoleko, Jesus M. Gonzalez-Barahona and Lars Kurth	Using Metrics to Track Code Review Performance: the Xen Case	0 -	-	Oct 25, 18:45
29	Zakariya Dehlawi and Andrew J. Ko	Predicting the Diffusion of Software Security Activities	0 -	- 7 (Oct 25, 19:02
30	Marcos Kalinowski, Pablo Curty, Aline Paes, Alexandre Ferreira, Rodrigo Spinola, Daniel Méndez Fernández, Michael Felderer and Stefan Wagner	Supporting Defect Causal Analysis in Practice with Cross-Company Data on Causes of Requirements Engineering Problems	0 -	_	Oct 25, 20:07
31	Steven D. Fraser and Dennis Mancl	"No Silver Bullet" Revisited: Panel Session	0 7	-	Oct 25, 20:14
32	Trishank Kuppusamy, Vladimir Diaz and Justin Cappos	Mercury: Bandwidth-Effective Prevention of Rollback Attacks Against Community Repositories	0 -	- 7 (Oct 25, 20:52
33	Mojdeh Golagha, Alexander Pretschner, Dominik Fisch and Roman Nagy	Reducing Failure Analysis Time: An Industrial Evaluation	0 -		Oct 25, 21:41
34	Atif Memon, Zebao Gao, Bao Nguyen, Sanjeev Dhanda, Eric Nickell, Rob Siemborski and John Micco	Taming Google-Scale Continuous Testing	0 -		Oct 25, 23:03
	Arun Kalyanasundaram, Judith Bishop and James Herbsleb	Industrial Open Source Project Decisions, Best Practices and Community Engagement: A Case Study at Microsoft	0 /-		Oct 26, 01:40
36	Bargav Jayaraman, Anurag Dwarakanath, Breno D. Cruz and Collin McMillan	A Deep Learning approach for the Multi-lingual identification of Vagueness	0 -		Oct 26, 02:19
	Jingzheng Wu, Sizhe Zhao, <u>Shouling Ji</u> , Mutian Yang, Tianyue Luo, <u>Yanjun Wu</u> and Yongji Wang	MAD-API: Detection, Correction and Explanation of API Misuses in Android Applications	0 5		Oct 26, 03:13
38	Remo Eckert, Sathya Kay Meyer and Matthias Stuermer	Capability Maturity Model of Inner Source Implementation	0 -	_	Oct 26, 05:17
39	Khaled Alnawasreh, <u>Patrizio Pelliccione</u> , Zhenxiao Hao, Mårten Rånge and Antonia Bertolino	Online Robustness Testing of Distributed Embedded Systems: an Industrial Approach	0 -		Oct 26, 06:56
40	Yulai Zhou, Patrizio Pelliccione, Johan Haraldsson and Maffiul Islam	Improving Robustness of AUTOSAR Software Components with Design by Contract: A study within Volvo AB	0 5		Oct 26, 07:03
41	Henrik Edholm, Mikaela Lidström, Jan-Philipp Steghöfer and Håkan Burden	Crunch Time: The Reasons and Effects of Unpaid Overtime in the Games Industry	0 -	_	Oct 26, 07:26
42	Jacob Krüger, Andy Kenner, Christopher Kruczek and Thomas Leich	Modularizing Conditional Compilation: An Automatic Minimal-Invasive Approach	0 -	-	Oct 26, 07:42
43	Katja Kevic, Brendan Murphy, Laurie Williams and Jennifer Beckmann	Characterizing Experimentation in Continuous Deployment: a Case Study on Bing	0 7		Oct 26, 09:23
44	Jakub Misek and Filip Zavoral	Binding semantic tree of dynamic languages to static language constructs	0 =	7 0	Oct 26, 10:04
	Ivica Crnkovic and Anna Börjesson Sandberg	Meeting Industry - Academia Research Collaboration Challenges with agile methodologies	0 =		Oct 26, 10:21
46	Eero Laukkanen, Maria Paasivaara, Juha Itkonen, Casper Lassenius and Teemu Arvonen	Towards Continuous Delivery by Reducing the Feature Freeze Period: A Case Study	0 =	3 (Oct 26, 11:02
47	Pete Rotella, Cody Peeples and Mark-David McLaughlin	Prioritizing Security Bug Fixes: A Novel Text Analytics Approach	0 7	-	Oct 26, 11:03
48	Mohamad Kassab, Jooyoung Lee, Manuel Mazzara, Giancarlo Succi and Rasul Tumyrkin	Software Quality - Traditional vs. Agile: an Empirical Investigation	0 =	3 (Oct 26, 11:47
49	Kumar Abhinav, Alpana Dubey, Sakshi Jain, Gurdeep Virdi, Alex Kass and Manish Mehta	CrowdAdvisor: A Framework for Worker Assessment in Crowdsourcing	0 =	-	Oct 26, 11:55
50	Lingfeng Bao, Zhenchang Xing, <u>Xin Xia</u> , <u>David Lo</u> and Shanping Li	Who Will Leave the Company? A Large-Scale Industry Study of Developer Turnover by Mining Monthly Work Report	0 =	7 (Oct 26, 13:05
	<u>Padmalata Nistala</u> and Kesav Vithal Nori	Towards A Software Product Quality Taxonomy to Elicit Quality Requirements	0 =		Oct 26, 13:17
	Christoph Seidl, Thorsten Berger, Christoph Elsner and Klaus-Benedikt Schultis	Challenges and Solutions for Opening Small and Medium-Scale Industrial Software Platforms	0 =	_	Oct 26, 13:31
53	Jayati Deshmukh, Annervaz K M, Sanjay Podder, Shubhashis Sengupta and Neville Dubash	A Deep Learning Approach for Accurate Duplicate Bug Detection	0 =		Oct 26, 14:11
	Ayse Tosun, Ozgur Turkgulu, Dogan Razon, Hamza Yusuf Aydemir and Arda Gureller	Predicting defects using test execution logs in an industrial setting	0 =		Oct 26, 14:14
55	Raffaele Ciriello, Alexander Richter and Gerhard Schwabe	When Prototyping Meets Storytelling: Practices and Malpractices in Innovating Software Firms	0 =		Oct 26, 14:26
56	Rebekka Wohlrab, Patrizio Pelliccione, Eric Knauss and Mats Larsson	Agility in Automotive: Continuous Engineering of Systems Engineering Artifacts	0 =		Oct 26, 14:48
57	Yingxia Wei, Rui Wang and Yu Jiang	From Off-line Towards Real-time : A Runtime Verification Approach for Robot Systems	0 =		Oct 26, 15:55
58	Kee-Choon Kwon, Jang-Soo Lee and Eunkyoung Jee	Application of Safety Case for Digital Reactor Protection System in Nuclear Power Plants	0 =		Oct 26, 16:04
	Ulrik Eklund and Christian Berger	Scaling Agile Development in Mechatronic Organizations – A Comparative Case Study	0 =	I	Oct 26, 16:12
	Jürgen Cito, Fábio Oliveira, Philipp Leitner, Priya Nagpurkar and Harald Gall	Context-Based Analytics - Establishing Explicit Links between Runtime Traces and Source Code	0 =	-	Oct 26, 16:32
	Francesco Sorrentino	Elastic Partitioning: A Tool for Testing Scalable Distributed Systems	0 =		Oct 26, 17:43
	Hennie Huligens, Leandro Minku, Chris Lokan and Arie van Deursen	Effort versus Cost in Software Development: A Comparison of Two Industrial Data Sets	0 =	-	Oct 26, 18:56
	Ma. Laura Caliusco, Emiliano Reynares, Néstor Reynoso, Juan Echagüe, Santiago Sosa and Agustín Martínez	Ontology-Driven Information Systems at the Oil & Gas Domain: An Experience Report	0 =	-	Oct 26, 19:19
64	Simon Harrer, Matthias Geiger, Vincenzo Ferme, Cesare Pautasso, Jörg Lenhard, Marigianna Skouradaki and Frank Leymann	Lessons Learned in Evaluating Workflow Management Systems "What you Expect and What you Get"	0 =		Oct 26, 19:36
	Helena Holmström Olsson and Jan Bosch	So Much Data; So Little Value A multi-case study on improving the impact of data-driven development practices	0 =		Oct 26, 19:30
65		, and the second	_		
	Franz Zieris and Lutz Prechelt	Pair Programming Feasibility Critically Depends on Task Difficulty		3 0	Oct 26, 20:00
66	Franz Zieris and Lutz Prechelt Abram Hindle and Curtis Onuczko	Pair Programming Feasibility Critically Depends on Task Difficulty Stopping Duplicate Bug Reports before they start with Continuous Querying for Bug Reports	0 =	I	Oct 26, 20:09 Oct 26, 20:18

	Izautino P. Oliveira and Renata Souza		Stories for New Products: A Research on the Use of Storytelling	in Requirements Identification in Software Engineering			
2	Hans Jochen Scholl, William Menten-Weil and Timothy S. C.	arlson	Artifact Evaluation with TEDSrate		○		
3	Celal Ziftci and Jim Reardon		Who Broke the Build? Automatically Identifying Changes That Is	nduce Test Failures In Continuous Integration at Google Scale	Sep 27, 20:32		
	Uma Viswanath and Ramya Shyama Palakodati		Measuring Leanness in a lean software organization: A model to	gauge the lean implementation using the 3 dimensional approaches of Process, Product, and People			
	Sofia Modesto and Miguel Mira Da Silva		Gamification to Increase Scrum Adoption		0 ct 14, 15:51		
	Guillermo Rodriguez, Alvaro Soria and Marcelo Campo Andrea Arcuri		A Case-based Reasoning Approach to Reuse Quality-driven Des Back After 5 Years In Industry As Software Engineer / Tester: V		Oct 14, 19:08 Oct 15, 16:58		
	Christof Ebert and Michael Weyrich		Architecture Evolution for the Internet of Things	ve Need Osable Automated Test Generation	0 ct 15, 16:58		
	Andrew Ko		A Three-Year Participant Observation of Software Startup Softw	are Evolution	Oct 17, 22:08		
10	Torvald Mårtensson, Pär Hammarström and Jan Bosch		Continuous Integration Is Not About Build Systems		0 Ct 19, 19:43		
11	Junjie Wang, Qiang Cui, Song Wang and Qing Wang		Domain Adaptation for Test Report Classification in Crowdsource	ed Testing	① 📂 Oct 20, 08:09		
12	Fernando Pinciroli, Jose Luis Barros Justo and Raymundo F	orradellas	Aspect-Oriented Business Process Modeling Approaches: An ass	sessment of AOP4ST	0 ct 20, 13:32		
	Paul L. Li, Andrew J. Ko and Andrew Begel		Expert Non-Software-Engineers's Perspectives on Why Software		0 ct 20, 16:10		
	Balbir Barn, Souvik Barat, Tony Clark and Vinay Kulkarni		Reviewing the Software Engineering Nexus of Current Research		0 ct 21, 14:00		
	Saad Mubeen, Mikael Sjödin, Harold Lawson, John Lundbär Christopher Theisen, Brendan Murphy, Kim Herzig and Lau		Provisioning of Predictable Embedded Software in the Vehicle Ir Risk-Based Attack Surface Approximation: How Much Data is Er		Oct 22, 19:47 Oct 23, 03:16		
	Daniel Russo, Paolo Clancarini, Tommaso Falasconi and Ma		Software Quality Concerns in the Italian Bank Sector: the Emer		0 ct 23, 03:16		
	Akond Rahman, Asif Partho, David Meder and Laurie Willia		Which Factors Influence Practitioners' Usage of Build Automatio		0 🗗 Oct 24, 00:43		
	Cuiyun Gao, Yichuan Man, Hui Xu, Jieming Zhu, Yangfan Zi		Assist Developers in Mobile Advertising via User Reviews and Co		0 oct 24, 17:49		
21	Zhitao Hou, <u>Hongyu Zhang</u> , Haidong Zhang and <u>Dongmei</u>	Zhang	MetroEyes: A Visual Analytics System for Exploring Multi-Dimer	isional Data	① 📑 Oct 25, 00:49		
	S.M. Sohan, Craig Anslow and Frank Maurer		Automated Example Oriented REST API Documentation at Cisco		0 ct 25, 05:34		
	Terese Besker, Antonio Martini and Jan Bosch		Time to Pay Up - Technical Debt From a Software Quality Perspe		0 Ct 25, 08:53		
	Dale Blue, Orna Raz, Rachel Tzoref-Brill, Paul Wojciak and		Novel applications of combinatorial testing in validating softwar		Oct 25, 12:40		
	Jingzheng Wu, Shen Liu, Shouling Ji, Mutian Yang, Yanjun	Wu, Yongji Wang and Tianyue Luo	Exception Beyond Exception: Crashing Android System by Trapp		Oct 25, 14:28 Oct 25, 16:38		
	Charles Weir, Awais Rashid and James Noble Samuel Marks and Andrew White		Dialectical Security: Challenging the Developers of Mobile and I Code-generation driven development	OT SOUTHBURG	0 ct 25, 16:38 0 ct 25, 18:35		
	Daniel Izquierdo-Cortazar, Nelson Sekitoleko, Jesus M. Gor	nzalez-Barahona and Lars Kurth	Using Metrics to Track Code Review Performance: the Xen Case		0 🗗 Oct 25, 18:45		
	Zakariya Dehlawi and Andrew J. Ko		Predicting the Diffusion of Software Security Activities		0 Ct 25, 19:02		
30	Marcos Kalinowski, Pablo Curty, Aline Paes, Alexandre Ferr	eira, Rodrigo Spinola, Daniel Méndez Fernández, Michael Felderer and Stefan Wagner	Supporting Defect Causal Analysis in Practice with Cross-Compa	any Data on Causes of Requirements Engineering Problems	0 oct 25, 20:07		
31	Steven D. Fraser and Dennis Manci		"No Silver Bullet" Revisited: Panel Session		0 oct 25, 20:14		
	Trishank Kuppusamy, Vladimir Diaz and Justin Cappos		Mercury: Bandwidth-Effective Prevention of Rollback Attacks Ag	ainst Community Repositories	0 ct 25, 20:52		
	Mojdeh Golagha, Alexander Pretschner, Dominik Fisch and		Reducing Failure Analysis Time: An Industrial Evaluation		0 ct 25, 21:41		
	Atif Memon, Zebao Gao, Bao Nguyen, Sanjeev Dhanda, Eri	c Nickell, Rob Siemborski and John Micco	Taming Google-Scale Continuous Testing		0 ct 25, 23:03		
	Arun Kalyanasundaram, <u>Judith Bishop</u> and James Herbsleb Bargav Jayaraman, Anurag Dwarakanath, Breno D. Cruz ar	nd Cellio MeMilloo	Industrial Open Source Project Decisions, Best Practices and Co A Deep Learning approach for the Multi-lingual identification of		Oct 26, 01:40		
	Jingzheng Wu, Sizhe Zhao, Shouling Ji, Mutian Yang, Tiany		MAD-API: Detection, Correction and Explanation of API Misuses	-	0 ct 26, 02:19		
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40	Yulai Zhou, Patrizio Pelliccione, Johan Haraldsson and Mafji	ul Islam	Improving Robustness of AUTOSAR Software Components with	Design by Contract: A study within Volvo AB	0 oct 26, 07:03		
	Henrik Edholm, Mikaela Lidström, Jan-Philipp Steghöfer an		Crunch Time: The Reasons and Effects of Unpaid Overtime in the	e Games Industry	0 ct 26, 07:26		
42	Jacob Krüger, Andy Kenner, Christopher Kruczek and Thom Katja Kevic, Brendan Murphy, Laurie Williams and Jennifer	as Leich	Modularizing Conditional Compilation: An Automatic Minimal-In	vasive Approach Success factors, challenges and lessons learned: An empirical study of software projects in the put	Oct 26, 07:42	6 📑	Oct 26, 20:34
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46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67	Juca Crnkovic and Anna Borjesson Sandberg Eero Laukkanen, Maria Pasaivaara, Juha Itkonen, Casper L Pete Rotella, Cody Peeples and Maric David McLaughlin Mohamad Kassab, Jooyoung Lee, Hanuel Mazzara, Gianca Kumar Abhinav, Alpana Dubey, Sakshi Jain, Gurdeep Virdi, Lingfeng Bao, Penchanay King, Kina Xia, David Lo and Sha Padmalata Histala and Kesav Vithal Nori Christoph Seidi, Thorsten Berger, Christoph Eisner and Kia Jayati Deshmukh, Annervaz K H, Sanjay Podder, Shubhast Avia Tosun, Ozgur Turkgulu, Dogan Razon, Hamza Yusuf A Baffaele, Ciriello, Alexander Richter and Gerhand Schwabe Rebekka Wohrlan, Partisio Pellicone, Eric Knauss and Mat Yingxia Wei, Rui Wang and Yu Jiang Keer-Choon Kwon, Jang-Soo Lee and Eunkyoung Jee Livine Edund and Christian Berger Jürgen Cito, Fábio Oliveira, Philipo Leitner, Priya Hagpurka Francesco Sorrentino Hennie Huijgens, Leandro Minku, Chris Lokan and Arie var Ma. Laura Callusco. 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Jun George Marsicano, Fablo Silva and Diana Velena Michael Lescisin, Qusay Mahmoud and Anca Cioraca Tu Jiang, Han Ut, Houling Scago, Xun Jiao, Yue Gao, Ming Gu and Jiaguang Sun Jano James, Mathias Calster, Kelly Bilnoce and Grant Miller Cornel Barna, Marin Libou, Marios Fokaefs, Mark Shbern and De Wigglesworth Wign Lam, Siwakom Sriskakeuk, Bake Bassett, Peyrnan Mahdan, Jao Xie, Pratap I Wign Lam, Siwakom Sriskakeuk, Bake Bassett, Peyrnan Mahdan, Jao Xie, Pratap I Heinael Gang, Afen van Denger Bands, Grands Miller Cornel Barna, Marin Libou, Marios Fokaefs, Mark Shbern and De Wigglesworth Wign Lam, Siwakom Sriskakeuk, Bake Bassett, Peyrnan Mahdan, Jao Xie, Pratap I Heinael Gang, Afen van Deursen and Anthony Cleve Yingnong Dang, Annean Deursen and Anthony Cleve Yingnong Dang,	salaw. Staron and Thomas Hercel millians Di Penta and Andr. Zaidman e Intrausti and Santiago Charramendieta Jacob Juul hamed Nasser and Parminder Flora enefelds Angel Fernandez for akshman and Jonathan de Halleux ing Lam, Wel Yang and Tao Xie tefan Sauer min Anvari, Babanpreet Kaur, Akash Chhetri and Liming Zhu	Paving the Roadway for Safety of Automated Vehicles: An Empirical Study on Testing Challenges An scalable and adaptable maturity model for product development teams Confinious Proteyping: Unified Application Delivery from Early Design to Code Towards Converging Agile to Human Centered Design: an action research study Prediction of Software Model Growth in Practice What Types of Build Failures Stop Continuous Deliveny? 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Insights from the Trenches On Developing Linear Quadratic Performance Controllers for Cloud Applications A Characteristic Study of Barameterized Unit Tests in JRET Open Source Projects Automated Test Input Generation for Android: Towards Getting There in an Industrial Case Systematic Spreadtheet Construction Processes Agile Cultural Challenges in Europe and Asia: Insights from P	items		Oct 26, 20:44 Oct 26, 20:49 Oct 26, 20:49 Oct 26, 20:49 Oct 26, 21:17 Oct 26, 21:46 Oct 26, 21:46 Oct 26, 21:46 Oct 26, 21:47 Oct 26, 22:41 Oct 26, 22:41 Oct 26, 22:01 Oct 26, 22:01 Oct 26, 22:01 Oct 27, 00:13 Oct 27, 00:13 Oct 27, 00:13 Oct 27, 00:32 Oct 27, 00:46 Oct 27, 03:27 Oct 27, 03:40 Oct 27, 03:40 Oct 27, 03:50 Oct 27, 10:15
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Status



Reviews of Submissions Assigned to Me

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Review submission or updates have now been disabled. Please contact chairs if you believe they should be enabled.

ICSE 2017 SEIP

#	Submission	Details	paper	Show reviews	Contact subreviewer
2	Hans Jochen Scholl, William Menten-Weil and Timothy S. Carlson. Artifact Evaluation with TEDSrate	0		_0	
35	Arun Kalyanasundaram, Judith Bishop and James Herbsleb. Industrial Open Source Project Decisions, Best Practices and Community Engagement: A Case Study at Microsoft	0		_0	
95	Cornel Barna, Marin Litoiu, Marios Fokaefs, Mark Shtern and Joe Wigglesworth. On Developing Linear Quadratic Performance Controllers for Cloud Applications	0		_0	
102	Yingnong Dang, Dongmei Zhang, Song Ge, Ray Huang, Chengyun Chu and Tao Xie. Transferring Code-Clone Detection and Analysis to Practice	0		_0	

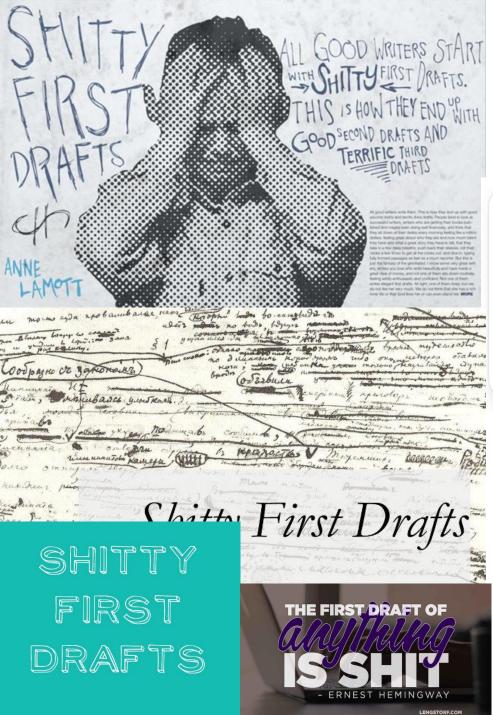
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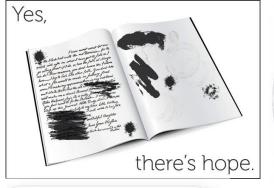
Premium News

Reviews and Comments				 change presentation to have three parts, namely (1) study se and best practices to be used in other companies, e.g. how to l 		Thank	ks,				
		Confidential remarks				Natali					
	ember:	Guenther Ruhe	for the prog	for the program Good topic, but weak presentation. committee:		Time:	Dec 2	28, 17:11			
Revie Time:		Didar Al Alam < didar522@gmail.com> Nov 27, 23:35	committee.						Comment 2		
	all Evaluation:	2: (accept - I support acceptance)			R	PC member:			ns already have been that the paper does not offer too much on tangible take-ways from		
	tial Impact to	4: (High - Work impacting industry)	PC member:	Elmar J		an industrial perspectiv			ee with the related comment made by Reviewer 3. The main reason I scored 2 was the		
	try: World Focus:	4: (Excellent - 100% real world focus)	Time:	Dec 22,	10:02	Comment:			presentation in		
Revie			Overall Evaluation:	-2: (rej	ect - I support rejection)		I mod	dified my evaluation.			
confic		5: (expert)	Potential				Thank				
			Impact to Industry:	2: (Low	- Not expected much impact)	Time:	Guent Dec 2	ther 28, 19:17			
		This paper presents multiple case stu making and best practices for open sou							Review 1		
			Focus:	3: (Goo	d - Enough real world focus)	PC member:		Guenther Ruhe	Review 1		
		Points for the paper: Context of the paper and purpose of t	Reviewer's confidence:	4: (high	1)	Reviewer:		Didar Al Alam < didar5	22@gmail.com>		
		Of strong interest for (large) organiza Well organized background study. Aut				Time:		Dec 28, 19:18			
		 Well organized background study. Aut explained and the whole paper is struct 			per presents a study based on interviews and data extracted from		uation:	-1: (weak reject - reje	ct, but could accept)		
		. Comparison of projects from two diffe		researc	h division and from a product division at Microsoft. Most of the de	Potential Im	pact to	3: (Enough - Work cou	uld impact industry)		
		aware of generalizing results across pro • The paper revealed findings related to			n concern with the paper is the lack of a strong problem stateme			, -	' "		
		firm to open source projects. The paper • Findings and practices are supported		does a	nity in terms of success of external engagement and later on intr good job at iterating different motives for open-sourcing code, wh		ocus:	3: (Good - Enough rea	I world focus)		
		Findings and practices are supported		reader	which specific goal such a general measurement as DDE has and	confidence:		5: (expert)			
		Points against the paper:			e behaves differently, depending on project life cycle phase or rel if the behavior of DEE is problematic or not.				Review		
		Overall, the paper would benefit from Archival data from Github is mentione			tshell, the paper deals too much with what is easy to measure, n			1. This paper presents	multiple case study at Microsoft. It examines the challenges of open sourcing industrial proj	ects. The authors analyzed decision	
		The abstract should present a summa Decision points and trade-off decision		Points i	n favor:				ices for open sourcing projects. They also compare challenges and practices from projects u		
		alternatives? Utility function(s)? Who m			ommunity would benefit from a better understanding of the factor			2. Points for the paper	ı		
		For projects with multiple repositories discuss under "Threats to validity" how		- Direct	developer involvement			Context of the paper	and purpose of the study are well explained.		
		It seems, the data is collected from G		Points a					 (large) organizations following hybrid closed and open source development. ground study. Authors identified existing gaps in literature and mapped with contributions of 	the paper Goal of the study is well	
		change over time as well. • For some findings, some of the example.			of the projects are from the research division. As the paper states h projects. For the in practice track, this is not a good fit to me.				le paper is structured around the goals.	the paper. Goal of the study is well	
Revie	w:	present the percentage of projects follo	Review:	- There	is very little information that I as a practitioner who faces these				cts from two different divisions. It helps to understand the commonalities and differences be	tween divisions. It also makes reader	
		 Each section consists of a set of findir hard to identify the key message. Read 			troduction reads too much like a related work / survey and too lithe study and DEE are hard to interpret.			aware of generalizing i The paper revealed f	esuits across projects. Indings related to assessing DEE in industrial OSS projects. Extracted best practices will prov	vide a road map for any industrial software	
		. In section iv-c, the authors discussed		Minor p				firm to open source pr	ojects. The paper does not provide decision support, but helps to understand the decision pr		
		cons of both approaches. • In section iv authors discussed decision			oints: ge 1, the acronym DEE is used before it is defined on page 2. Thi			Findings and practice	es are supported by example projects, interview statements.		
		conditions.			ge 2, the paper states that the projects were "carefully selected".			Points against the pape			
		Authors identified a number of metric Measures like download counts, numb			to me why the fact that "project owners [that] are more concern dy. If they are "more" concerned, they are probably not represen				ould benefit from some higher degree of specific. For example, when talking about trade-offs		
		is identified when the data is filtered ba			vould a deeper knowledge of user demographics help developers ations with the user base to be a much better means to understa				ithub is mentioned in the abstract. Wish there would be more details on that process and the present a summary of findings. Reader does not have any clue of actual findings until they re		
		get affected in case of considering one • To measure popularity of a project, a popularity. Or should we consider them • Some of the best practices are applic: This information should be added for ex	conve		n p5, "external contributions" explicitly contain contributions that "no			Decision points and to	rade-off decisions are mentioned several time in the paper. However, the decision scenario is		
				number	of commits authored by external developers" and thus probably				nction(s)? Who makes the decision? Based on what? Itiple repositories, authors considered only one (to "avoid complications"). This looks like a s	trong simplification. The author should	
									to validity" how this decision impacts the study.	arong simplification. The author should	
		Key findings and messages of the pap			urther points				collected from GitHub over time. Why forks, stars and watchers are considered as static dat	ta instead of temporal. These values	
		discussion, example and practices. It is • Minor:			ersonally very excited to start to read this paper, since the title his majority of the paper is about the research, not the product divi			 change over time as w For some findings, so 	en. ome of the examples presented show completely different behaviour. Along with reporting th	ese behaviours, authors should also	
		o DEE is first used reader does not know	Confidential			Review:		present the percentage	e of projects follow a certain behaviour and which is applicable under what type of condition.		
		o Justifications for not recording intervi on a decision.			this is a research track paper, not a SEIP paper. For the most par				s of a set of findings or practices. Authors should list the key findings in each section. With all y message. Reader may get lost and miss important information easily.	II the examples, stories and discussion, it i	
		on a decision.	program	someth	ing. For me as a practitioner, the paper lacks a specific problem a			• In section iv-c, the a	uthors discussed converting industrial projects to OSS being done early vs late. For a fair co	mparison, authors should discuss pros and	
		Suggested improvements: Improve messaging by highlighting sc	committee:					cons of both approach	es. discussed decision making under different conditions. It would be good to suggest a certain	antian that works botton under angelfic	
		- Provide more concrete data			Comment 1			conditions.	discussed decision making under different conditions. It would be good to suggest a certain	option that works better under specific	
		- Address issues listed under 3.	PC member:	Hi folks,					number of metrics (from practice) for DEE calculation. Any recommendation on their applicat		
	dential rks for the			We are	starting the discussion phase.				ead counts, number of page views in GitHub, and number of logins give an estimate of the u data is filtered based on IP (Internet Protocol) addresses and other unique identifiers. Autho		
progr	am	Potentially interesting paper if some mo						get affected in case of	considering one vs the other.		
comn	nittee:		Comment:	Guenthe and tell	er, since you are the one with a different view here, could you ple us whether they modify your view?				ty of a project, a number of metrics are presented. How all these metrics will come together we consider them independently?	to calculate an overall value of the	
				Thanks,				 Some of the best pra 	ctices are applicable for both industrial and non-industrial OSS projects. Some are only appl	icable to industrial open source projects.	
	ember:	Christof Ebert							d be added for each practice. ssages of the paper should be summarized or visualized. The study is comprehensive. A larg	e list of findings is presented with	
Time:	all Evaluation:	Dec 06, 14:29 -1: (weak reject - reject, but could ac	Time:	Natalia Dec 28,	17:11			discussion, example ar	nd practices. It is hard for the reader to keep track of the content or identify all the findings :	and their applicability.	
	tial Impact to				Comment 2			• Minor:	der does not know what DEE stands for. It was first defined one section later.		
Indus	try:	2: (Low - Not expected much impact)	PC member:						recording interview is not clear. Recording has its positive arguments as well. Author should	discuss both pros and cons before focusin	
	World Focus:	3: (Good - Enough real world focus)		Yes, the an indus	y do. My former concerns already have been that the paper does strial perspective. I agree with the related comment made by Rev			on a decision.			
Revie	wer's lence:	4: (high)		attractiv	re TOPIC and the good presentation.			4. Suggested improver	ments:		
			Comment:	I modifi	ed my evaluation.			- Improve messaging l	by highlighting some concrete and operational findings.		
		1) The authors present a case study a	sed benefits from open source. (Gu		Thanks,				 Provide more concret Address issues listed 		
		promised benefits from open source. (trade-offs and best practices.			Guenther		Confidential		- Address issues listed	under 5.	
		The state of the s	Time:	Dec 28,		remarks for		Potentially interacting	paper if some more details and concrete numbers and findings would be synthesized from al	If the writing.	
		Points for the paper The paper is relevant as it presents it	DC mb		R Guenther Ruhe	program		. ocentiany interesting	popularis source declara and concrete manufers and findings would be syndlesized from all		
		- The research approach using intervi-	Davidson.		Didar Al Alam <didar522@gmail.com></didar522@gmail.com>	committee:					
		- Many observations are discussed ste	Time:		Dec 28, 19:18	DC		mment 3			
		3) Points against the paper	Overall Eval	luation:	-1: (weak reject - reject, but could accept)	PC member:		ia Juristo Ve reject this paper then.			
		 While the paper is strong in digging Topics such as security etc. are treat 		pact to	3: (Enough - Work could impact industry)	Comment		• • • •			
Revie	w.	code more secure vs. the reasonable i	moustry.	Focus:	3: (Good - Enough real world focus)	Comment:	mank	NS:			
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Für den Reviewer schreiben

- Problem-Statement und Contribution herausarbeiten
- Etablierte Gliederung verwenden: https://thesisguide.org/2014/10/13/thesis-architecture/
- Text einfach lesbar machen. Das ist hart und anstrengend.
 Aber planbar und erlernbar, keine Talentfrage.



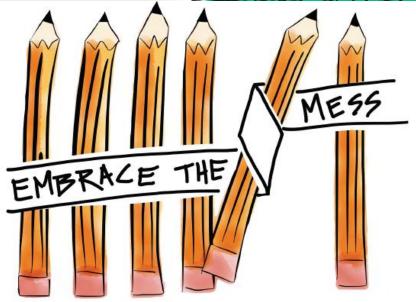


First drafts
don't have to be
perfect.
They just have to
be written.

THE FIRST DRAFT OF ANYTHING IS SHIT.



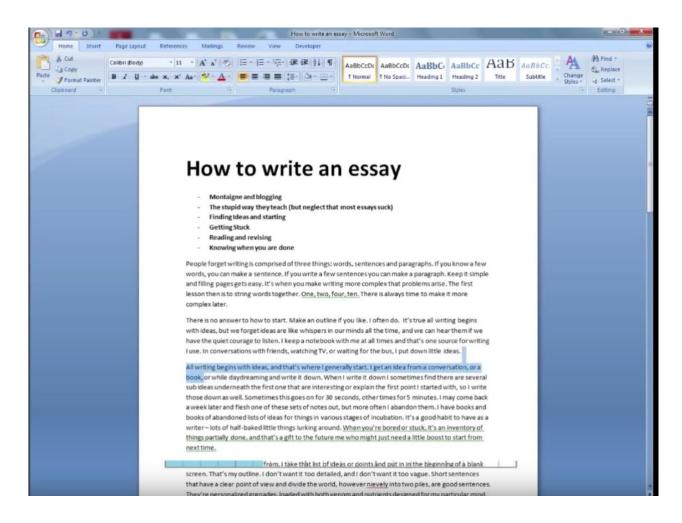




Was mir am meisten bringt

- Schreibzeit blocken
- Outline zuerst
- Schreiben und verbessern voneinander trennen
- Kompletten Absatz schreiben, bevor ich irgendwas verbessere
- Text "abkühlen lassen" und dann nochmal Korrekturlesen.
 Bei mir am besten mind. 1 Tag später.
- Es gibt nicht die eine "richtige" Art zu schreiben, die für alle gleich gut funktioniert.

Scott Berkun: Essay-Schreiben im Zeitraffer



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Professioneller Lektor

When Lannroach a buffet. I feel an urge to fill my empty plate. To get quick results, I put

How to Spend Your Writing Time Well?

Every A thesis comprises is made up of several chapters, such as including an introduction, definitions, related work, proposed solution, and conclusion. You must decide how much time (and pages) to spend on each of them. I call this writing resource allocation.

If <u>this step is</u> done poorly, authors <u>will</u> waste a large part of their writing time on chapters that are not central to their thesis; <u>for example</u>, producing bloated definitions <u>or</u>, <u>a</u> myriad <u>of</u> irrelevant technical details <u>or other waste</u>. Not only does this distract readers, it also <u>inevitably</u> robs authors of the time <u>they need</u> to write their central chapters carefully. <u>Therefore</u>, <u>pPoor</u> writing resource allocation is <u>thus</u> an <u>effective</u> recipe <u>to write</u> for a bad thesis.

<u>So h</u>How <u>to do you</u> do <u>it this step</u> well? For me, writing resource allocation is a lot like allocating plate space when eating at a <u>large</u> buffet. <u>For bB</u>oth problems <u>have</u>, <u>there is</u> a similar solution strategy that is intuitive, widely applied and reliable <u>to produce poor results</u>:

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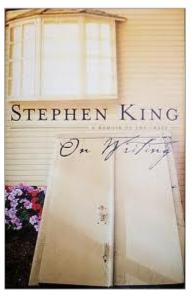
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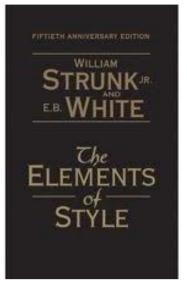
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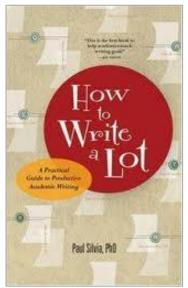
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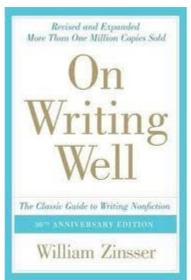
James Morrison jmedits@gmail.com

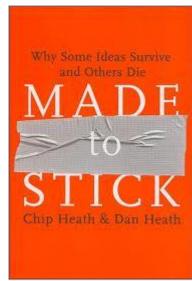
comes to the important chapters. You are hard pressed for time when you When it comes time to write the contribution and evaluation, or whichever chapters matter most, you find yourself pressed for time. To make things worse, the really interesting ideas often come only after you have been immersed into a topic for a while: that is, This is at the end of your writing time. Just as like with for the really tasting tastiest buffet items, there is no space left. They end up are either being left out, or they

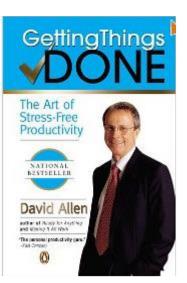




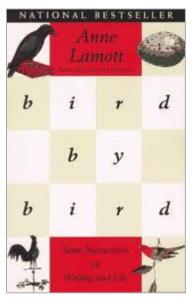


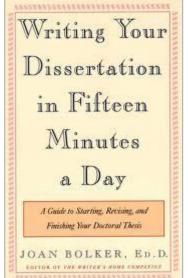


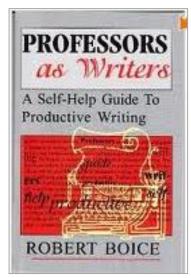


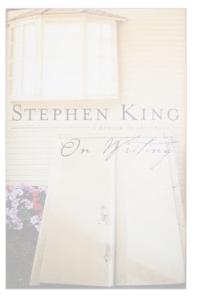


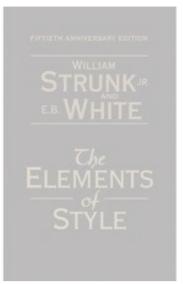


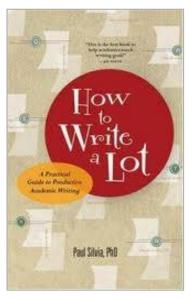


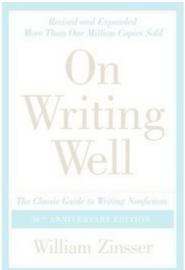


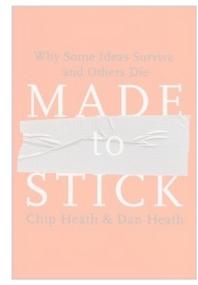


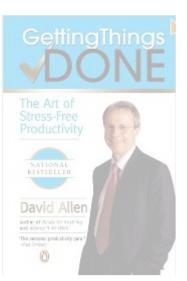




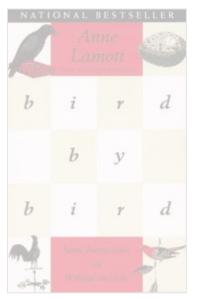


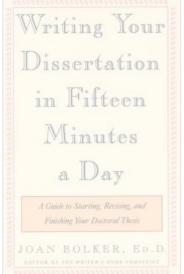


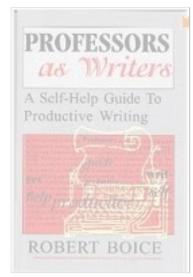


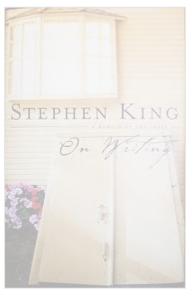


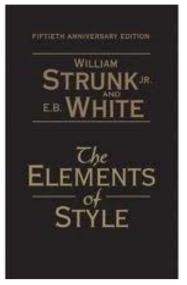


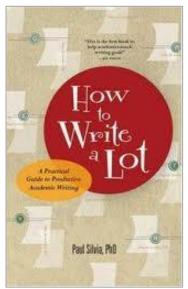


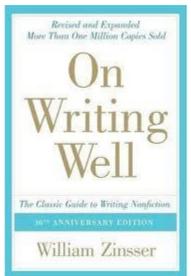




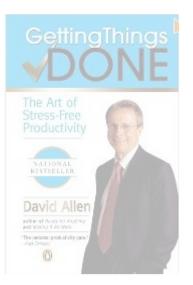




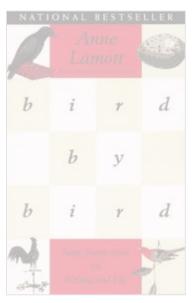


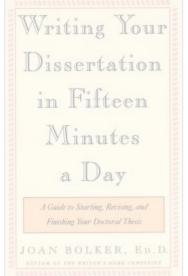


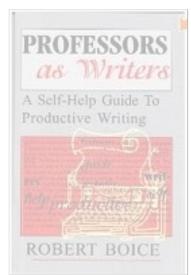












Roman Haas¹ and Benjamin Hummel²

- ¹ Technical University of Munich, Lichtenbergstr. 8, Garching, Germany
- roman.haas@tum.de ² CQSE GmbH, Lichtenbergstr. 8, Garching, Germany

Summary. Extract method refactoring is a common way to shorten long methods in software development. It is uproves code muddelity, reduces complexity, and is not fill the method of the most beginning that the contract of the most beginning that the contract of the most beginning that the contract of t developers, there is a lack of understanding of the scoring function. In the , we present research on the single scoring features, and their importance for king capability. In addition, we evaluate the ranking capability of the sugg scoring function, and derive a better and less complex one using learning to rank

Key words: Learning to Rank, Refactoring Suggestion, Extract Method Refactoring, Long Method

A long method is a had smell in software systems [9], and makes code harder to A long method is one shear in sortware systems [2], and makes coor factor-read, understand and test. A straight-forward way of shortening long method is to extract parts of them into a new method. This procedure is called 'extra method refactoring', and is the most often used refactoring in practice [20]

The process of extracting a method can be partially automated by using modern development environments, such as Eclipse IDE or Intellij IDEA, that can put a set of extractable statements into a new method. How developers still need to find this set of statements by themselves, which take

into the code. Therefore, in the pruning step of our approach, we usually filter out candidates that need more than three input parameters, thus avoiding the long parameter list' mentioned by Fowler 2. To avoid learning that too many input parameters are bad, we considered only candidates that had less than

reduction and readability improvement. The higher the ranking we gave a

reduction and reananity improvement. The ingirer the ranking we gave a candidate, the better the suggestion was for us. Some of the randomly selected methods were not suitable for an extract method refactoring. That was most commonly the case when the code would not benefit from the extract method, but from other refactorings. In addition, for some methods, we could not derive a meaningful ranking because there were only very weak candidates. That is why we did not use 18 of the 195 randomly selected long methods to learn our scoring function.

1.4 Evaluation In this section, we present and evaluate the results from the learning proce-

1.4.1 Research Questions

RQ1: What are the results of the learning tools? In order to get a ring function that is capable of ranking the extract method refa andidates, we decided to use two learning to rank tools that implement dif-erent approaches, and that had performed well in previous studies.

RQ2: How stable are the learned scoring functions? To be able to derive implications for a real-world scoring function, the coefficients of the learned scoring function should not vary a lot during the 10-fold cross evaluation procedure

RQ3: Can the scoring function be simplified? For practical reasons, it is useful to have a scoring function with a limited number of features. Additionally, reducing the search space may increase the performance of the learning to rank tools – resulting in better scoring functions.

RQ4: How does the learned scoring function compare with our man ually determined one? In our previous work, we derived a scoring function by manual experiments. Now we can use our learning data set to evaluate the ranking performance of the previously defined scoring function, and to npare it with the learned one

4 On http://in.tum.de/-haas/12r_enrc_data.zip we provide our rankings and

menced developers sometimes select statements that cannot be extracted (for onle, when several output parmeters are required, but are not supported

imper, when several output pagmaneters are required, out are not supported the programming language) [12]. The refactoring process can be improved by suggesting to developers which dements could be extracted into a new method. The literature presents several approaches that can be used to find extract method refactorings. In a previous work, we suggested a method that could be used to automat find good extract method refactoring candidates for long Java methods find good extract method relactonic andidates for long Java methods <u>B</u>. Our first prototype, which was derived from manual experiments on several open source systems, implemented a corting function to rank refactoring can-didates. The result of our resultation has shown that this first prototype find-suggestions that are followed by experimented developers. The results of our first prototype has been implemented in an industrial softwave quality anal-

Problem statement. The scoring function is an essential part of our ap proach to derive extract method refactoring suggestions for long methods. It is decisive for the quality of our suggestions, and also important for the complexity of the implementation of the refactoring suggester. However, it is currently unclear how good the scoring function actually performs in ranking refactoring suggestions and how much complexity will be needed to obtain ons. Therefore, in order to enhance our work, we need a deepe

useriu siggestions. I nevelore, in order to enhance our work, we need a deeper understanding of the secoring function.

Contribution. We do further research on the scoring function of our ap-proach to derive extract method refactoring suggestions for long Java meth-ods. We use learning to rank techniques in order to learn which features of the scoring function are relevant, to get meaningful refactoring suggestion and to keep the scoring function as simple as possible. In addition, we eval and to keep the seconing function as simple as possible. In addition, we eval-uate the ranking performance of our previous scoring function, and compare it with the new scoring function that we learned. For the machine learning setting, we use 177 training, and testing data sets that we obtained from 33 well-known open source systems by manually ranking five to nine randomly selected valid refactoring candidates.

In this paper, we show how we derived better extract method refactoring ions than in our previous work using learning to rank tools

1.2 Fundamentals

We use learning to rank techniques to obtain a scoring function that is able to we use searning to rain techniques to obtain a scoring function that is able to rank extract method refactoring candidates, and use normalized discounted cumulative gain (NDCG) metrics to evaluate the ranking performance. In this section, we explain the techniques, tools and metrics that we use in this paper

To answer RQ1 and RQ2, we used the learning to rank tools SVM-rank and to answer reg1 and racg2, we used the earning to rank cools Sv4-rank and ListMLE to perform a 10-fold cross validation on our training and test data set of 177 long methods, and a total of 1,185 refactoring candidates. We il-lustrate the stability of the single coefficients by using box plots that show how the coefficients are distributed over the ten iterations of the 10-fold cross

To answer RQ3, we simplified the learned scoring function by omitting features, where the selection criterion for the omitted features is preservation features, where the selection criterion for the omitted features is preservation of the making capability of the sourcing function. Our initial feature set con-tained six different measures of length. For the sake of simplicity, we would like to have only one measure of length in our scoring function. To find out which measure best fit in with our training set, we re-ran the validation pro-cedure (again sing ListMEZ and SWM-rank), but this time with only one ent, using each of the length measurements one at a tim We continued with the feature set reduction until only one feature was left

The following paragraphs answer the research questions

RQ1: What are the results of the learning tools?

Figures 1.2 and 1.3 show the results of the 10-fold cross validation for ListMLE and for SVM-rank, respectively. For each single feature, i, there is a box plot of the corresponding coefficient, c_i .

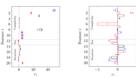


Fig. 1.2: Learning Result From ListMLE With All Features

Fig. 1.3: Learning Result From SVM-rank With All Features

Learning to rank refers to machine learning techniques for training the model in a ranking task 4.

There are several learning to rank approaches, where the pairwise and the for a long method. Liu et al. S pointed out that the pairwise and the listwise approaches usually perform better than the pointwise approach. Therefore, do not rely on a pointwise approach but use pairwise and listwise learning

rank tools.

Qin et al. [15] constructed a benchmark collection for research on se learning to rank tools on the Learning To Rank (LETOR) data set. Their results support the hypothesis that pointwise approaches perform badly comnared with pairwise and listwise approaches. In addition, listwise approaches pared with pairwise and instwise approaches. In addition, instwise approaches often perform better than pairwise. However, VM-muk, a pairwise learning to rank tool by Thochantardis et al. [28], performs quite well and the first experiments on our data set showed that SVM-muk may lead us to interesting results. We set the parameter -c to 0.5 and the parameter -d to 5,000 as a trade-off between time consumption and learning performance Beside SVM-rank, we used a listwise learning to rank tool, ListMLE by

Xia et al. [21]. In their evaluation, they showed that ListMLE performs better than ListNet by Cgo et al. [3], which was also considered to be good by Qin et al. . [a. a. a. [b] improved the learning capability of ListMLE, but did not provide binaries or source code; so we were unable to use the improved

ListMLE needs to be assigned a tolerance rate and a learning rate. In a series of experiments we performed, we found that the optimal ranking on our data set was with a tolerance rate of 0.001 and a learnin

1.2.2 Training and Testing

The learning process consisted of two steps: training and testing. We applied cross-validation $[\underline{16}]$ with 10 sets, that is, we split our learning data into 10 sets of (nearly) equal size. We performed 10 iterations using these sets, where nine of the sets were considered to be training data and one set was used as

Test data is used to evaluate the ranking performance of the learned scoring function by comparing the grade of a refactoring candidate determined by the learned scoring function with its grade given by the learning data. We use NDCG metric to compare different scoring functions and their performances

N/3, whereas for NVM-rank it is 0.790. Therefore, the scoring function found by ListMLE performed better than the scoring function found by SVM-rank.

Table 1.2: Coefficients of Variation for Learned Coefficients

RQ2: How stable are the learned scoring functions?

tion (CV) for the learned coefficients for ListMLE and for SVM-rank. Small tion (UV) for the learned coefficients for LotML: and for SVM-rina. Small in CVM indicates that in relative terms the results from the single true in the ference of the control of the co process: that is, despite the heavy overlapping of the training sets, the learned sefficients vary a lot and can hardly be generalized

RO3: Can the scoring function be simplified?

Figure 14 shows a plot of the averaged NDCG measure for all 12 runs. Re-Figure 24 shows a plot of the averaged NDCG measure for all 12 runs. Re-member that we actually had three length measures, and we considered the absolute and the relative values for all of them. As the reduction of the num-er of statements led to a higher NDCG for ListMLE (which outperformed SVM-rank with respect to NDCG), we chose to ne it as our length mea-sure. In practice, that seems sensible since, while LoC also count empty and ated lines, the number of statements only counts real code

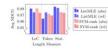


Fig. 1.4: Averaged NDCG When Considering Only One Length Measure

which is described in more detail by Jarvelin and Kekalainen St., and measure the goodness of the ranking list (obtained by the application of the sc are goomiess or the ranking ask (obtained by the application of the scoring unection). Mistakes in the top-most ranks have a bigger impact on the DCG measure value. This is useful and important to us because we will not suggest all possible refactoring candidates, but only the highest-ranked ones. Given a long method, m_i , with refactoring candidates, C_i , suppose that π_i is the a four method, m_i , with reflectioning candidates, C_i , suppose that π_i is the more given two m_i as the first point of the first point m_i and m_i and of the last position so that all ranks are taken into account. See Hang [4] for further details.

1.3 Approach

We discuss our approach to improve the scoring function in order to find the

1.3.1 Extract Method Refactoring Candidates

In our previous work is, we presented an approach to derive extract method refactoring suggestions automatically for long methods. The main steps are generating valid extract method refactoring candidates, ranking the candidates, and pruning the candidate list. In the following, a refuctoring candidate is a sequence of statements that

In the following, a refactoring omitiale is a sequence of statements that can be extracted from a method into aleve mist advantage in the method that contains all the statements from the original method after ap-plying the relatering, plus the call of the extracted method. The suggested refactorings will help to improve the readability of the code and reduce its complexity, because these are main reasons for developents to initiate code ed refactoring candidates from the control and data flow graph

We derived relatering cannitates from the control and data how graph of a method using the Continuous Quality Assessment Toolkit (ConQAT¹) open source software. We filtered out all invalid candidates, that is those that violate peeconditions that need to be fulfilled for extract unched refactoring (for details, see [12]). The second step of our approach was to rank the valid 3 www.compat.orw

on the ranking performance and removed it in the next iteration. A scoring function that only considered the number of input parameter nesting area reduction still had an average NDCG of 0.885.

RQ4: How does the learned scoring function compare with our manually

The scoring function that we presented in [3] achieved a NDCG of 0.891, which is better than the best scoring function learned in this evaluation.

1.4.4 Discussion

Our results show that, in the initial run of the learning to rank tools, features indicating a reduction of complexity are much more relevant for the ranking and therefore have a comparatively high impact. Furthermore, the stability
of ListMLE is higher on our data set than the stability of SVM-rank. For
SVM-rank there is a big variance in the learned coefficients, which might also be a reason for the comparatively lower performance measure values. The results for RQ3 show that it is possible to achieve a great simplification

without big reductions in the ranking performance. The biggest influences or the ranking performance were the reduction of the number of statements, th duction of nesting area (both are complexity indicators), and the number of input parameters.

Manual improvement As already mentioned, the learned scoring fun

did not outperform the manually determined scoring function from our pre-vious work. Obviously, the learning tools were not able to find optimal coefficients for the features. To improve the scoring function from our prev-ListMLE and SVM-rank, and evaluated the results using the whole lear

data set.

We were able to find several scoring functions that had only a handful of features and a better ranking performance than our scoring function from of features and a better ranking performang, than our scoring function from previous work (column Previous II able $\frac{1}{2}$. In addition to function the previous work (column Previous III able $\frac{1}{2}$. In addition to the three most important features that we obtained in the answer to RQ3 (features 9.3 ± 17 . in 200 km and 100 km and 1 sesting depth, and the number of output parameters.

By taking the results of ListMLE and SVM-rank into consideration, we Dy taxing the results of Listallit. and SV34-rain into consideration, we were able to find a coefficient xxxxv or such that the scoring function achieved a NDCG of 0.894 (see Table 1.3). That means that we were able to find a better scoring function when we combined the findings of our previous work with the learned coefficients from this paper. by hitering out very similar candidates, in order to obtain essentially different

In the present paper, we focus on the ranking of candidates, and especially

We aimed for an optimized scoring function that is capable of ranking extract method refactoring candidates, so that top-most ranked candidates are most likely to be chosen by developers for an extract method refactoring. The scor-ing function is a linear function that calculates the dot product of a coefficient vector, c, and a feature value vector, f, for each candidate. Candidates are arranged in decreasing order of their score In this paper, we use a basis of 20 features for the scoring function. In

the following, we give a short overview about the features. There as categories of feature: complexity-related features, parameters, and st

andidates $(C_1 \text{ and } C_2)$ that were chosen from the example method given in Figure 1.1. The gray area shows the nesting area, which is defined below. The



didates

We mainly focused on reducing complexity and increasing readability. For omplexity indicators, we used length, nesting and data flow information. For reduction of the method length (with respect to the longest method after th refactoring). We considered length based on the number of lines of code (LoC) reflectioning), we considered sength assect on the number of statements — all of them as both absolute values and relative to the original method length. We consider highly nested methods as more complex than moderately

ested ones, and use two features to represent the reduction of nesting: re duction of nesting depth and reduction of nesting area. The nesting area of a method with statements S_1 to S_n , each having a nesting depth of d_{S_n} is de method with Scattenarius 5; to S_n , even naving a nesting depth of aS_n , is we fined to be $\sum_{i=1}^n dS_n$. The idea of nesting area comes from the area alongsight the single statements of pretty printed code (see the gray areas in Figure 1.1) Dataflow information can also indicate complexity. We have features representing the number variables that are read, written or read and written.

We considered the number of input and output parameters as an indicator of data coupling between the original and the extracted methods, which we want to keep low using our suggestions. The more parameters that are needed for a set of statements to be extracted from a method, the more the statements will depend on the rest of the original method.

Finally, we have some features that represent structural aspects of the code A design principle for code is that methods should process only one thin Methods that follow this principle are easier to understand. As devel often put blank lines or comments between blocks of code that process: thing else, we use features representing the existence and the number of blank or commented lines at their beginning, or at their end. Additionally, for first tatement of the candidate, we check to see whether the type of the prois the same; and for the last statement, we check to see whether the type of the following statement is the same. Our last feature considers a structura complexity indicator – the number of branching statements in the candidate

1.3.3 Training and Test Data Generation

To be able to learn a scoring function, we need training and test data. We derived this data by manually ranking approximately 1,000 extract method refactoring suggestions. To obtain this learning data, we selected 13 Java refactoring suggestions. 10 obtain this learning data, we selected 13 Javas open source systems from various domains, and of different sizes. We consider a method to be 'long' if it has more than 40 LoC. From each project we randomly selected 15 long methods. For each method, we randomly selected valid refactoring candidates, where the number of candidates depended on the method length.

1.5 Threats to Validity

Learning from data sources that are either too similar or too small mean Learning from data sources that are either too summar or too sman means that there is a chance that no generalization of the results is possible. To have enough data to enable us to learn a scoring function that can rank extract menthod refactoring candidates, we chose 13 Javas open source projects from carious domains and from each project we randomly selected 15 long methods. We manually reviewed the long methods, and filtered out those that were not appropriate for the extract method. From the 177 remaining long methods appropriate for the extract method. From the 177 remaining loop methods, we randomly chose five to nine valid reflectoring suggestions, depending on the method length. We ensured that our learning data did not contain any.

The manual ranking was performed by a single individual, which is a threat to validity since there is no commonly agreed way on how to shorter a long

method, and therefore no single ranking criterion exists. The ranking wa done very carefully, with the aim of reducing the complexity and incr done very carefully, with the aim of reducing the complexity and increasing the readability and understandability of the code as much as possible; so, the secring function should provide a ranking such that we can make further refactoring suggestions with the same aim.

We relied on two learning to rank tools, which represents another threat

o validity. The learned scoring functions heavily depend on the tool. As the learned scoring functions vary, it is necessary to have an independent way of isoarnois scoring functions vary, it is necessary to have an independent way evaluating the ranking performance of the learned scoring functions. We used the widely used measure NDCG to evaluate the scoring functions, and applied a 10-fold cross validation procedure to obtain a meaningful evaluation of the ranking performance of the learned scoring function.

A threat to external validity is the fact that we derived our learning data

from 13 onen source Java systems. Therefore, results are not necessarily gen

1.6 Related Work

In our previous work [3], we presented an automatic approach to derive extract method refactoring suggestions for long methods. We obtained valid

All vand refactoring candidates were ranked by a manually-determined scor-ing function that aims to reduce code complexity and increase readability. In the present work, we have put the scoring function on more solid ground by learning a scoring function from many long methods, and manually ranked In the literature, there are several approaches that learn to suggest th

All valid refactoring candidates were ranked by a manually-deter-

in the interactive, there are severet approximets that near no suggest the most beneficial reflectorings—usually for code clones. Wang and Godfrey [4] propose an automated approach to recommend clones for reflectoring by train-ing a decision-tree based classifier. C4.5. They use 15 features for decision-tree model training, where four consider the cloning relationship, four the context of the clone, and seven relate to the code of the clone. In the present paper we have used a similar approach, but with a different aim; instead of clones we have focused on long methods.

we nave occused of going methods. Modaled et al. [16] rank clones for refactoring through mining association rules. Their idea is that clones that are often changed together to maintain a similar functionality are worthy candidates for refactoring. Their prototype tool, MARC, identifies clones that are often changed together in a similar way. and mines association rules among these. A major result of their evalua on thirteen software systems is that clones that are highly ranked by MARC important refactoring possibilities. We used learning to rank tecare important relactioning possionness. We used searing to that techniques to find a scoring function that is capable of ranking extract method refactoring candidates from long methods.

1.7 Conclusion and Future Work

In this paper, we have presented an approach to derive a scoring function that is able to rank extract method refactoring suggestions by applying learning to rank tools. The scoring function can be used to automatically rank extract method refactoring candidates, and thus present a set of best refactoring surgestions to developers. The resulting scoring function needs less parameter

tions to developers. The resulting scoring function needs less parameters an previous scoring functions but has a better ranking performance.

In the future, we would like to suggest sets of refactorings, especially those at remove clones from the code.

We would also like to find out whether the scoring function provides good

suggestions for object-oriented programming languages other than Java and whether other features need to be considered in that case.

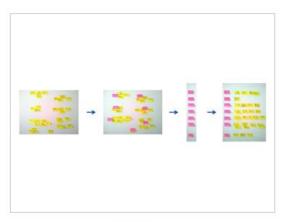
Acknowledgments

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four input parameters.

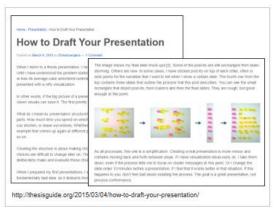
We ranked the selected candidates manually with respect to complexity

Vortrag Vorbereiten









https://thesisguide.org/2015/03/04/how-to-draft-your-presentation/

Vortragsplanung: Delta BA/MA

- Probevortrag vor Betreuer
- Vortrag auf Englisch üben
- Einstiegssätze aufschreiben und auswendig lernen.
- Backup Folien für mögliche Fragen

Forschungsarbeiten @ CQSE

- Mi., 27.06., 17 Uhr im Gate
- Agenda: Ablauf einer Forschungsarbeit @ CQSE
 - Analyse-Implementierung
 - Studie
 - Betreuung
 - Pitch aktueller Themen
- Hinterher Pizza und Bier ©



Anmeldung: https://forschungsarbeiten-cqse.eventbrite.de

Fazit

Willst Du selbst Forschen und die Forschungscommunity kennenlernen? Dann mach ein Guided Research.







Danke!

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juergens@cqse.eu

haas@cqse.eu

Am 26.6. um 17 Uhr: Forschungsarbeiten @ CQSE

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