Fifth International Workshop on Software Clones (IWSC 2011)

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ABSTRACT

Software clones are identical or similar pieces of code, design or other artifacts. Clones are known to be closely related to various issues in software engineering, such as software quality, complexity, architecture, refactoring, evolution, licensing, plagiarism, and so on. Various characteristics of software systems can be uncovered through clone analysis, and system restructuring can be performed by merging clones.

The goals of this workshop are to bring together researchers and practitioners from around the world to evaluate the current state of research and applications, discover new opportunities for collaboration, exchange ideas, envision new areas of research and applications, and explore synergies with similarity analysis in other areas and disciplines.

Categories and Subject Descriptors

D.2.m [Software Engineering]: Miscellaneous—code cloues; D.2.7 [Software Engineering]: Distribution, Maintenance, and Enhancement; D.2.8 [Software Engineering]: Metrics

General Terms

Measurement, Experimentation

Key words.

software maintenance, reverse engineering, clone detection, software clones

1. INTRODUCTION

Beginning in 2002, the first edition of the International Wordshop on Detection of Software Clones, this community began to form itself and to find ways to meet and collaborate. In November 2003, the Second International Workshop on Software Clones held at WCRE 2003 saw a broadening of its scope and participant background. Six years later, in March 2009, the number of participants of the Third International Workshop on Software Clones (held in conjunction with CSMS 2009) confirmed the interest that code clones research attracts. In recognition of the relevance of clones

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to the broader software engineering research community, in May 2010 the Fourth International Workshop on Software Crones became an ICSE workshop for the first time at ICSE 2010 in Cape Town.

The primary aims of the workshop are to:

- provide a common forum for software close research and applications
- bring together researchers and practitioners in the field
- clarify and assess the current state of research.
- discuss common problems and emerging research directions
- exchange ideas, explore and envision new applications and new areas of research
- discuss and exchange new empirical results, new insights and new approaches
- discover new opportunities for collaboration
- establish a list of new emerging research directions

The expected outcome is a list of open issues that should be addressed in the near future and concrete plans on how to conduct research to address these issues.

2. WORKSHOP THEMES

This workshop is intended as a discussion forum where original and innovative ideas can be openly presented, criticised and refined. It is an explicit goal of this workshop to focus on novel and forward-looking ideas as well as experience and practical amplications.

Relevant topics include, but are not limited to:

- · Definition of software clones
- Types, distribution, and nature of closes in software
- Causes and effects of clones
- Techniques and algorithms for clone detection, analysis, and management
- Clone and clone pattern visualization
- · Tools and systems for detecting and analyzing clones
- Applications of clone analysis
- Clone management.
- System architecture and clones
- Effect of clones on system complexity and quality
- Clone analysis in families of similar systems
- Industrial experiences
- Measures of code similarity.
- Economic and trade-off models for clone removal.
- Evaluation and benchmarking of detection methods
- · Licensing and plagiarism issues
- Clone-aware software design and development
- Refactoring through clone analysis

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Alistair Sutcliffe, A.G. Sutcliffe

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of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for

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trend are an increase in the size of software systems the variability in software artifacts and the importance of software in achieving the system level properties Software architecture provides the necessary abstractions for managing the resulting complexity We here introduce the Third Working IEEFIIFIP Conference on Software Architecture WICSA3 That it is already the third such conference is in itself a clear indication that software architecture continues to be an important topic in industrial software development and in software engineering research However becoming an established field does not mean that software architecture provides less opportunity for innovation and new directions On the contrary one can identify a number of interesting trends within software architecture research The first trend is that the role of the software architecture in all phases of software development is more explicitly recognized Whereas initially software architecture was primarily associated with the architecture design phase we now see that the software architecture is treated explicitly during development product derivation in software product lines at run time and during system evolution Software architecture as an artifact has been decoupled from a particular lifecycle phase Handbook of Software Engineering and Knowledge **Engineering** Shi Kuo Chang, 2001 This is the first handbook to cover comprehensively both software engineering and knowledge engineering OCo two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for guick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering Sample Chapter's Chapter 1 1 Introduction 97k Chapter 1 2 Theoretical Language Research 97k Chapter 1 3 Experimental Science 96k Chapter 1 4 Evolutionary Versus Revolutionary 108k Chapter 1 5 Concurrency and Parallelisms 232k Chapter 1 6 Summary 123k Contents Computer Language Advances D E Cooke et al Software Maintenance G Canfora Requirements Engineering A T Berztiss Software Engineering Standards Review and Perspectives Y X Wang A Large Scale Neural Network and Its Applications D Graupe Software Configuration Management in Software and Hypermedia Engineering A Survey L Bendix et al The Knowledge Modeling Paradigm in Knowledge Engineering E Motta Software Engineering and Knowledge Engineering Issues in Bioinformatics J T L Wang et al Conceptual Modeling in Software Engineering and Knowledge Engineering Concepts Techniques and Trends O Dieste et al Rationale Management in Software Engineering A H Dutoit Exploring Ontologies Y Kalfoglou and other papers Readership Graduate students researchers programmers managers and

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