Call for Papers
SCAM 2004

Fourth IEEE International Workshop on Source Code Analysis and Manipulation

15th and 16th September 2004,
Palmer House Hilton Hotel,

There will be special issue of The Journal of Systems and Software featuring
extended versions of selected papers from SCAM 2004

Co-located with
Twentieth IEEE International Conference on Software Maintenance, (ICSM 2004)
Tenth IEEE International Symposium on Software Metrics, (Metrics 2004)
Sixth IEEE Workshop on Web Site Evolution, (WSE 2004)
Ninth IEEE Workshop on Empirical Studies of Software Maintenance, (WESS 2004)

Sponsored by Institute of Electrical and Electronics Engineers (IEEE)

Contents

SPONSORS

Important note on Deadlines for SCAM 2004

The deadline of April 5th 2004 is **firm** for abstracts; the complete paper must be received by April 12th 2004 at the very latest. Papers submitted later than April 5th for which we have not received an abstract by April 5th cannot be considered.

Deadlines are expressed in Apia time. You might want to consult the World Clock.

1 Journal Special Issue

All papers accepted for inclusion in the workshop will appear in the proceedings which will be published by the IEEE Computer Society Press. In addition, authors of selected papers will be invited to submit extended version of their papers for a special issue of The Journal of Systems and Software.

2 Resources from the Workshop

This section will contain resources and outputs from the workshop

3 Location

Palmer House Hilton Hotel

4 Keynote Speaker

Details of the SCAM keynote will appear here.

5 Paper Submission Information

Papers should be submitted electronically. The paper submission portal is now available at
`http://www.rcost.unisannio.it/~scam2004papers/`.

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Papers should not be longer than 10 pages in IEEE Computer Society Press Proceedings Author Guidelines.

For LATEX users, style files are available. You can down load these by following this link to IEEE LATEXstyle files.

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Important Dates

Deadline for submission	:	**5th April 2004**
Notification	:	**4th June 2004**
Camera Ready Due	:	**2nd July 2004**
Workshop	:	**15th and 16th September 2004**

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6 About SCAM

6.1 Aims

The aim of this workshop is to bring together researchers and practitioners working on theory, techniques and applications which concern analysis and/or manipulation of the source code of computer systems. While much attention in the wider software engineering community is properly directed towards other aspects of systems development and evolution, such as specification, design and requirements engineering, it is the source code that contains the only precise description of the behaviour of the system. The analysis and manipulation of source code thus remains a pressing concern.

6.2 Topics Covered

Topics include, but are not limited to: program transformation, abstract interpretation, program slicing, source level software metrics, decompilation, source level testing and verification, source level optimisation and program comprehension. However, the empahsis of the workshop is on the analysis and manipulation techniques *themselves*.

6.3 Definition of 'Source Code'

For the purpose of clarity 'source code' is taken to mean any fully executable description of a software system. It is therefore so-construed as to include machine code, very high level languages and executable graphical representations of systems. The term 'analysis' is taken to mean any automated or semi automated procedure which takes source code and yields insight into its meaning. The term 'manipulation' is taken to mean any automated or semi-automated procedure which takes and returns source code.

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7 Technical Program

In keeping with the spirit and format of a workshop, SCAM will have a highly discursive nature, with theme-based discussion tracks and a keynote presentation, aimed at structuring and stimulating discussion.

Authors will have a 15 minute slot to present their work. This is 10 minutes (maximum) for talking with 5 minutes (minimum) for questions. Authors are encouraged not to attempt to present the details of their paper in this time. Rather, respecting the discussion-centered goal of SCAM, authors are encouraged to use a **few** slides to present points, claims, issues and topics for discussion and to use their time allocation to attempt to set the agenda for the ensuing discussions.

Each session has a specifically allocated discussion time at the end of the presentations to allow for this.

The full program for the workshop is available as an ASCII document.

Papers accepted for the workshop are listed in Section 9.

8 Registration

Registration is now open. There is a SCAM Registration Page and and ICSM Registration Page

If you prefer you can download a form (in Word format) to be filled in and FAXed. The FAX number and other details are all contained on the form itself.

A link is available for special rate at the conference hotel.

9 Accepted Papers

A list of accepted papers, together with their full text as submitted and pointers to the authors home page (where available) and email addresses is now available. This information is provided to maximize the chances for useful interactions at the workshop. (Incidentally, there is no significance in the order in which these papers appear on this page.)

10 Workshop social event

Details of SCAM social events will appear here.

11   SCAM Committees

11.1   Chairs

General Chair
Tom Dean, Department of Electrical and Computer Engineering, Queen's University, Canada
Program Chairs
Rainer Koschke, University of Stuttgart, Germany and
Michael Van De Vanter, Sun Microsystems Labs, USA
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TBA
Publicity Chair
Mark Harman, Department of Information Systems and Computing, Brunel University, UK,Jens Krinke, Fakultät für Mathematik und Informatik, Universität Passau, Germany and
Jianjun Zhao, Department of Computer Science and Engineering, Fukuoka Institute of Technology, Japan
Finance Chair
Dave Binkley, Computer Science Department, Loyola College in Maryland, USA
Electronic Submission Chair
Massimiliano Di Penta, Research Centre on Software Technology, Università degli Studi del Sannio, Italy

Publications Chair
TBA

Industry Chair
TBA

11.2   Steering Committee

Current members of the Steering committee:
Dave Binkley, Computer Science Department, Loyola College in Maryland, USA   (2001 – 2004)
Mark Harman, Department of Information Systems and Computing, Brunel University, UK   (Chair, 2001 – 2004)
Jim Cordy, School of Computing, Queen's University, Canada   (2002 – 2005)
Paolo Tonella, Centro per la Ricerca Scientifica e Tecnologica, Istituto Trentino di Cultura, Italy   (2002 – 2005)
Liz Burd, Department of Computer Science, University of Durham, UK   (2003 – 2006)
Leon Moonen, Software Evolution Research Laboratory, Technische Universiteit Delft, Netherlands   (2003 – 2006)
Past members of the Steering Committee:
Andrea De Lucia, Research Centre on Software Technology, Università degli Studi del Sannio, Italy   (2001 – 2003)
Keith Gallagher, Computer Science Department, Loyola College in Maryland, USA   (2001 – 2003)
Gerardo Canfora, Research Centre on Software Technology, Università degli Studi del Sannio, Italy   (2001 – 2002)
Malcolm Munro, Department of Computer Science, University of Durham, UK   (2001 – 2002)

11.3   Program Committee

Paul Anderson, Grammatech, USA
Giulio Antoniol, Research Centre on Software Technology, Università degli Studi del Sannio, Italy
Françoise Balmas, Université Paris 8, Laboratoire d'Intelligence Artificielle, France
Ira Baxter, Semantic Designs, USA
Dave Binkley, Computer Science Department, Loyola College in Maryland, USA
Liz Burd, Department of Computer Science, University of Durham, UK
Jim Cordy, School of Computing, Queen's University, Canada
Steve Counsell, School of Computer Science and Information Systems, Birkbeck College, UK
Tom Dean, Department of Electrical and Computer Engineering, Queen's University, Canada
Andrea De Lucia, Research Centre on Software Technology, Università degli Studi del Sannio, Italy
Massimiliano Di Penta, Research Centre on Software Technology, Università degli Studi del Sannio, Italy
Manuel Fähndrich, Microsoft Research, USA
Anna Rita Fasolino, Dipartimento di Informatica e Sistemistica, University of Naples, Italy
Keith Gallagher, Computer Science Department, Loyola College in Maryland, USA
Roberto Giacobazzi, Dipartimento di Informatica, Università degli Studi di Verona, Italy
Michael Godfrey, Computer Science Department, University of Waterloo, Canada
Tibor Gyimóthy, Department of Informatics, University of Szeged, Hungary
Mark Harman, Department of Information Systems and Computing, Brunel University, UK

Bogdan Korel, Department of Computer Science, Illinois Institute of Technology, USA
Rainer Koschke, University of Stuttgart, Germany
Rene Krikhaar, Philips Medical Systems, Netherlands
Jens Krinke, Fakultät für Mathematik und Informatik, Universität Passau, Germany
Ralf Lämmel, Free University of Amsterdam and Centrum voor Wiskunde en Informatica, Netherlands
Panos Linos, Department of Computer Science and Software Engineering, Butler University, USA
Leon Moonen, Software Evolution Research Laboratory, Technische Universiteit Delft, Netherlands
Maxim Mossienko, IT Research Institute, St. Petersburg State University, Russia
Malcolm Munro, Department of Computer Science, University of Durham, UK
Filippo Ricca, Centro per la Ricerca Scientifica e Tecnologica, Istituto Trentino di Cultura, Italy
Jurgen Rilling, Department of Computer Science, Concordia University, Canada
Sibylle Schupp, Department of Computer Science, Rensselaer Polytechnic Institute, USA
Paolo Tonella, Centro per la Ricerca Scientifica e Tecnologica, Istituto Trentino di Cultura, Italy
Arie Van Deursen, Centrum voor Wiskunde en Informatica, Netherlands
Michael Van De Vanter, Sun Microsystems Labs, USA
Chris Verhoef, Department of Mathematics and Computer Science, Free University of Amsterdam, Holland
Martin Ward, Software Technology Research Lab, Department of Computer Science, DeMontfort University and Software Migrations Ltd, UK
Andreas Zeller, FR Informatik, Universität des Saarlandes, Germany
Jianjun Zhao, Department of Computer Science and Engineering, Fukuoka Institute of Technology, Japan
Hongjun Zheng, Semantic Designs, USA

12   Printable Call for Papers

A single sheet call is available in postscript and PDF. This document also contains the information authors will need regarding submission of papers (Section 5) and important dates (Section 6.4).

13   History of SCAM

The first SCAM workshop (SCAM 2001) was held in Florence, on November 10th 2001, co-located with ICSM 2001, WESS 2001and WSE 2001. The workshop was a one day event with the emphasis on discussion. 40 people attended the workshop.

The SCAM 2001 Proceedings are published by the IEEE and there is a special issue of the journal Information and Software Technology featuring extended versions of selected papers from SCAM 2001.

The second SCAM workshop (SCAM 2002) was held in Montréal, on October 1st 2002 with ICSM 2002, WESS 2002, DBMR 2002, and WSE 2002. The workshop maintained the discussion-based emphasis. Some resources and outputs from the workshop are available on the SCAM 2002 website. 43 people attended the workshop.

The SCAM 2002 Proceedings are published by the IEEE and there is a special issue (due in January 2004) of The Journal of Automated Software Engineering featuring extended versions of selected papers from the SCAM 2002 workshop.

The third SCAM workshop (SCAM 2003) was held in Amsterdam, on September 26th and 27th, co-located with ICSM 2003, STEP 2003, ELIZA 2003, VISSOFT 2003and WSE 2003. The workshop maintained the discussion-based emphasis, with short paper presentations of 15 minutes and long discussion slots. Due to the large number of paper submissions in 2003, the organisers moved from the one-day format of previous years, to a one-and-a-half day format. Some resources and outputs from the workshop are available on the SCAM 2003 website. 52 people attended the workshop.

The SCAM 2003 Proceedings are published by the IEEE and there will be a special issue of The Software Quality Journal featuring extended versions of selected papers from the SCAM 2003 workshop.

14   Enquiries about the workshop

If you have any enquiries about the workshop (other than submission of paper, which should go to the program Chair, Rainer Koschke ter), please contact the general chair, Tom Dean.