

Call for Participation

SCAM 2001

*IEEE International Workshop on Source Code Analysis and
Manipulation*

November 10th 2001,

Florence, Italy,

Co-located with

IEEE International Conference on Software Maintenance, (ICSM2001)

IEEE 7th Workshop on Empirical Studies of Software Maintenance, (WESS2001)

Sponsored by

Engineering and Physical Sciences Research Council (EPSRC),

Institute of Electrical and Electronics Engineers (IEEE),

Università degli Studi del Sannio,

Brunel University,

University of Durham



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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.

1.2 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 emphasis of SCAM2001 is on the analysis and manipulation techniques *themselves*.

1.3 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.

1.4 Submission of Papers

Both full paper and position paper submissions are sought. Authors should clearly indicate which form of paper they are submitting. Accepted submissions (both full papers and position papers) will appear in the SCAM2001 proceedings, which will be published by the IEEE Computer Society Press. There will also be a special issue of the international journal, Information and Software Technology, containing the best full papers from SCAM2001. The conference committee may invite authors of some position papers to extend their papers for inclusion in the special issue.

Authors should submit Ghostview-readable postscript or PDF to the program chair, Malcolm Munro/Mark Harman (Malcolm.Munro@brunel.ac.uk) by 20th April 2001. Enquiries concerning SCAM2001 should be directed to the general chair, Mark Harman (Mark.Harman@brunel.ac.uk).

1.5 Relationship to WESS2001

SCAM2001 is co-located with WESS2001 and ICSM2001. Authors of papers with a large empirical component are encouraged to submit to WESS2001, rather than to SCAM2001.

1.6 Relationship to WCRE

Authors of full papers which concern the application of source code analysis and manipulation to reverse engineering should submit their papers to WCRE.

1.7 Important Dates

Important Dates

Deadline for submission	:	20th April 2001
Notification	:	10th June 2001
Camera Ready Due	:	15th July 2001
Workshop	:	10th November 2001

Submit Ghostview-readable postscript or PDF to Malcolm Munro/Mark Harman

2 Technical Program

In keeping with the spirit and format of a workshop, SCAM will have a highly discursive nature, with four theme-based discussion tracks and two keynote presentations, aimed at structuring and stimulating discussion. Authors will not formally present their papers, but will be encouraged to bring up to three slides to present which they will be able to do as a part of the discussion. Non-authors attending the workshop will also be entitled to bring a slide summarizing their position which

There will be plenty of time for discussion.

We start at 9am.

Registration takes place with teh ICSM registration at also at 8.30am until 9am on the day (Saturday 10th November).

The workshop closes at 6pm.

Papers accepted for the workshop are listed in Section 4.

3 Registration

You can now register for the workshop through the ICSE/WESS/SCAM Registration Page.

4 Accepted Papers

A list of papers accepted for the workshop and which will appear in the SCAM2001 proceedings (can be found on the SCAM website). (It should appear below if you are reading the on-line version of this document).

5 SCAM Committees

5.1 Chairs

- **General Chair**

Mark Harman, Department of Information Systems and Computing, Brunel University, UK

- **Program Chairs**

Malcolm Munro, Department of Computer Science, University of Durham, UK/Mark Harman, Department of Information Systems and Computing, Brunel University, UK

- **Local Arrangements Chair**

Lin Hu, Brunel University, UK

5.2 Steering Committee

- Dave Binkley, Computer Science Department, Loyola College in Maryland, USA
- Gerardo Canfora, Facoltà di Ingegneria, Università degli Studi del Sannio, Italy
- Andrea De Lucia, Facoltà di Ingegneria, Università degli Studi del Sannio, Italy
- Keith Gallagher, Computer Science Department, Loyola College in Maryland, USA
- Mark Harman, Department of Information Systems and Computing, Brunel University, UK
- Malcolm Munro, Department of Computer Science, University of Durham, UK

5.3 Program Committee

- Giulio Antoniol, Facoltà di Ingegneria,Università degli Studi del Sannio, Italy
- Ira Baxter, Semantic Designs, USA
- Keith Bennett, Department of Computer Science, University of Durham, UK
- Jim Bieman, Computer Science Department, Colorado State University, USA
- Dave Binkley, Computer Science Department, Loyola College in Maryland, USA
- Liz Burd, Department of Computer Science, University of Durham, UK
- Gerardo Canfora, Facoltà di Ingegneria, Università degli Studi del Sannio, Italy
- Andrea De Lucia, Facoltà di Ingegneria, Università degli Studi del Sannio, Italy
- Jean-Christophe Deprez, Center for Advanced Computer Studies, University of Louisiana at Lafayette, USA

- Keith Gallagher, Computer Science Department, Loyola College in Maryland, USA
- Michael Godfrey, Computer Science Department, University of Waterloo, Canada
- Dick Hamlet, Portland State University, Computer Science Department, USA
- Mark Harman, Department of Information Systems and Computing, Brunel University, UK
- Rob Hierons, Department of Information Systems and Computing, Brunel University, UK
- Mariam Kamkar, Department of Computer and Information Science, Linköping University, Sweden
- Bogdan Korel, Department of Computer Science, Illinois Institute of Technology, USA
- Rainer Koschke, University of Stuttgart, Germany
- Jens Krinke, Fakultät für Mathematik und Informatik, Universität Passau, Germany
- Arun Lakhotia, Center for Advanced Computer Studies, University of Louisiana at Lafayette, USA
- Paul Layzell, Department of Computation, UMIST, UK
- Christian Lindig, Electrical Engineering and Computer Science, Harvard University, USA
- Brian Malloy, Department of Computer Science, Clemson University, USA
- Malcolm Munro, Department of Computer Science, University of Durham, UK
- Vaclav Rajlich, Department of Computer Science, Wayne State University, USA
- Martin Shepperd, School of Design, Engineering & Computing, Bournemouth University, UK
- Harry Sneed, SES Software-Engineering Service, Germany
- Paolo Tonella, Centro per la Ricerca Scientifica e Tecnologica, Istituto Trentino di Cultura, Italy
- Martin Ward, Software Migrations Ltd, UK
- Norman Wilde, Department of Computer Science, University of West Florida, USA
- Martin Woodward, Department of Computer Science, University of Liverpool, UK
- Hongji Yang, Department of Computer Science, DeMontfort University, UK

6 Printable Call for Papers

A single sheet call is available in postscript. This document also contains the information authors will need regarding submission of papers (Section 1.4) and important dates (Section 1.7).

7 Enquiries about SCAM2001

If you have any enquiries about SCAM2001 (other than submission of paper, which should go to the program Chair, Malcolm Munro/Mark Harman), please contact the general chair, Mark Harman.