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Static Analysis

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Preface

Static analysis allows us to determine aspects of the dynamic behavior of programs and systems without actually executing them. Traditionally used in optimizing compilers, static analysis is now also used extensively in verification, software certification and semantics-based manipulation. The research community in static analysis covers a broad spectrum from foundational issues – new semantic models of programming languages and systems – through to practical tools. The series of Static Analysis Symposia has served as the primary venue for presentation and discussion of theoretical, practical and application advances in the area.

This volume contains the papers accepted for presentation at the 12th International Static Analysis Symposium (SAS 2005) which was held 7–9 September 2005 at Imperial College London. A total of 66 papers were submitted; the Program Committee held an online discussion which led to the selection of 22 papers for presentation. The selection was based on scientific quality, originality and relevance to the scope of SAS. Every paper was reviewed by at least 3 PC members or external referees. This volume also includes abstracts of talks given by the two invited speakers: Samson Abramsky FRS (University of Oxford) and Andrew Gordon (Microsoft Research, Cambridge).

On behalf of the Program Committee, the Program Chair would like to thank all of the authors who submitted papers and all of the external referees for their careful work in the reviewing process. The Program Chair would also particularly like to thank Igor Siveroni who provided local support for the conference management system and who helped in organizing the structure of this volume. We would also like to express our gratitude to Herbert Wiklicky and Bridget Gundry who masterminded the local arrangements.

SAS 2005 was held concurrently with *LOPSTR 2005*, the *International Symposium on Logic-Based Program Synthesis and Transformation.* We would like to thank Pat Hill (LOPSTR PC Chair) for her help and advice on the organizational aspects.

London, June 2005 Chris Hankin

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