ETAPS 2006 was the ninth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised five conferences (CC, ESOP, FASE, FOSSACS, TACAS), 18 satellite workshops (AC-CAT, AVIS, CMCS, COCV, DCC, EAAI, FESCA, FRCSS, GT-VMT, LDTA, MBT, QAPL, SC, SLAP, SPIN, TERMGRAPH, WITS and WRLA), two tutorials, and seven invited lectures (not including those that were specific to the satellite events). We received over 550 submissions to the five conferences this year, giving an overall acceptance rate of 23%, with acceptance rates below 30% for each conference. Congratulations to all the authors who made it to the final programme! I hope that most of the other authors still found a way of participating in this exciting event and I hope you will continue submitting.

The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis and improvement. The languages, methodologies and tools which support these activities are all well within its scope. Different blends of theory and practice are represented, with an inclination towards theory with a practical motivation on the one hand and soundly based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

ETAPS is a loose confederation in which each event retains its own identity, with a separate Program Committee and proceedings. Its format is open-ended, allowing it to grow and evolve as time goes by. Contributed talks and system demonstrations are in synchronized parallel sessions, with invited lectures in plenary sessions. Two of the invited lectures are reserved for “unifying” talks on topics of interest to the whole range of ETAPS attendees. The aim of cramming all this activity into a single one-week meeting is to create a strong magnet for academic and industrial researchers working on topics within its scope, giving them the opportunity to learn about research in related areas, and thereby to foster new and existing links between work in areas that were formerly addressed in separate meetings.

ETAPS 2006 was organized by the Vienna University of Technology, in cooperation with:

- European Association for Theoretical Computer Science (EATCS);
- European Association for Programming Languages and Systems (EAPLS);
- European Association of Software Science and Technology (EASST);
- Institute for Computer Languages, Vienna;
- Austrian Computing Society;
- The Bürgermeister der Bundeshauptstadt Wien;
- Vienna Convention Bureau;
- Intel.
The organizing team comprised:

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Local Arrangements: Anton Ertl
Publicity: Joost-Pieter Katoen
Satellite Events: Andreas Krall
Industrial Liaison: Eva Kühn
Liaison with City of Vienna: Ulrich Neumerkel
Tutorials Chair, Website: Franz Puntigam
Website: Fabian Schmied
Local Organization, Workshops Proceedings: Markus Schordan

Overall planning for ETAPS conferences is the responsibility of its Steering Committee, whose current membership is:

Perdita Stevens (Edinburgh, Chair), Luca Aceto (Aalborg and Reykjavík), Rastislav Bodík (Berkeley), Maura Cerioli (Genova), Matt Dwyer (Nebraska), Hartmut Ehrig (Berlin), José Fiadeiro (Leicester), Marie-Claude Gaudel (Paris), Roberto Gorrieri (Bologna), Reiko Heckel (Leicester), Michael Huth (London), Joost-Pieter Katoen (Aachen), Paul Klint (Amsterdam), Jens Knoop (Vienna), Shriram Krishnamurthi (Brown), Kim Larsen (Aalborg), Tiziana Margaria (Göttingen), Ugo Montanari (Pisa), Rocco de Nicola (Florence), Hanne Riis Nielson (Copenhagen), Jens Palsberg (UCLA), Mooly Sagiv (Tel-Aviv), João Saraiva (Minho), Don Sannella (Edinburgh), Vladimiro Sassone (Southampton), Helmut Seidl (Munich), Peter Sestoft (Copenhagen), Andreas Zeller (Saarbrücken).

I would like to express my sincere gratitude to all of these people and organizations, the Program Committee chairs and PC members of the ETAPS conferences, the organizers of the satellite events, the speakers themselves, the many reviewers, and Springer for agreeing to publish the ETAPS proceedings. Finally, I would like to thank the Organizing Chair of ETAPS 2006, Jens Knoop, for arranging for us to have ETAPS in the beautiful city of Vienna.

Edinburgh
January 2006

Perdita Stevens
ETAPS Steering Committee Chair
Preface

The Program Committee is pleased to present the proceedings of the 15th International Conference on Compiler Construction (CC 2006) which was held on March 30 and 31 in Vienna, Austria, as part of the Joint European Conference on Theory and Practice of Software (ETAPS 2006).

Traditionally, CC had been a forum for research on compiler construction. Starting last year, CC has expanded its remit to include a broader spectrum of programming tools, from analysis tools to compilers to virtual machines to debuggers. The submissions we received again reflected the new scope of the conference.

The Program Committee received 71 submissions. From these, 17 research papers and 3 tool demonstrations were selected, giving an overall acceptance rate of 28%.

The Program Committee included 16 members representing 9 countries on 3 continents. Each member reviewed roughly 16 papers and each paper received at least three reviews. In all, 45 external reviewers participated in the review process. Committee members were allowed to submit papers; these would be screened by four reviewers. The Program Committee met on December 5 in London for a one-day meeting. All but three of the members attended the meeting.

Many people contributed to the success of this conference. First of all, we would like to thank the authors for all the care they put into their submissions. Our gratitude also goes to the Program Committee members and external reviewers for their substantive and insightful reviews. Intel generously funded parts of the Program Committee meeting. Special thanks go to Jay McCarthy for maintaining the Continue Conference Server.

CC 2006 was made possible by the ETAPS Steering Committee, in particular by the hard work of Jens Knoop in the role of ETAPS 2006 Organizing Committee Chair, and by that of Anton Ertl in taking care of the local arrangements. We would also like to thank Reinhard Wilhelm and Ras Bodik, recent CC chairs, for on-going helpful discussions about CC’s future direction. Finally, we are grateful to George Necula for accepting the invitation to give a keynote talk.

January 2006

Alan Mycroft and Andreas Zeller

CC 2006 Program Chairs
Conference Organization

Program Chairs

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University of Cambridge, UK
Andreas Zeller
Saarland University, Germany

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