Lecture Notes in Artificial Intelligence 6463

Edited by R. Goebel, J. Siekmann, and W. Wahlster

Subseries of Lecture Notes in Computer Science

Simon Siegler Nathan Wasser (Eds.)

Verification, Induction, Termination Analysis

Festschrift for Christoph Walther
on the Occasion of His 60th Birthday

Springer

Volume Editors

Simon Siegler
Nathan Wasser
Technische Universität Darmstadt, Fachbereich Informatik
Fachgebiet Programmiermethodik
Hochschulstraße 10, 64289 Darmstadt, Germany
E-mail: {siegler, wasser}@informatik.tu-darmstadt.de

Library of Congress Control Number: 2010938599

CR Subject Classification (1998): C.2, D.2, F.3, D.3, H.4, F.4.1

LNCS Sublibrary: SL 7 – Artificial Intelligence

ISSN 0302-9743
ISBN-10 3-642-17171-0 Springer Berlin Heidelberg New York
ISBN-13 978-3-642-17171-0 Springer Berlin Heidelberg New York

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper 06/3180

Christoph Walther
(Photo courtesy of Markus Aderhold)

Preface

This Festschrift is dedicated to Christoph Walther on the occasion of his 60^{th} birthday on August 9^{th}, 2010. It consists of articles by some of his colleagues and former students, who, on this momentous occasion, chose to show their appreciation.

In teaching theoretical computer science, Christoph has had a profound influence on many of his former and current students, not least by the introduction of ✓`eriFun` into the classroom. Outside of his teaching, developing ✓`eriFun` played a major role in his recent research activities.

When the idea for this Festschrift was first presented to us, it quickly became apparent that Christoph's work in the fields of verification, induction and termination analysis would be mirrored in the contributions, leading us to refer to this project as "VITA".

Since many of the authors have known Christoph for much longer than we have, we feel that the contributions themselves give a better insight into his former and present work than we possibly could. On that note, we hope Christoph enjoys reading this Festschrift and wish him all the best for his future.

The editors would like to thank everyone who showed interest in this project, especially the authors for their contributions and the organisers of the colloquium. Furthermore we would like to thank Kai Sachs for his work in coordinating this Festschrift with Springer. Last, but certainly not least, Veronika Weber has earned our heartfelt gratitude with her constant guidance and helpful advice.

September 2010

Simon Siegler
Nathan Wasser

Karsten Weihe on the Joint Celebration of the 60th Birthdays of Alejandro P. Buchmann, Sorin A. Huss, and Christoph Walther on November 19th, 2010

Honourable Colleague,
Dear Christoph,

Let me first send my congratulations to you as well as to Alejandro Buchmann and Sorin Huss. You jointly celebrate your 60th birthdays this year. I wish you all the best for your future work at TU Darmstadt!

Christoph, among all of your merits, there is one that is particularly connected with my responsibilities as the Head of Department. In those years in which you were the only theoretician in the faculty, you took care and fought hard to ensure that Theory of Computer Science should be considered in all strategic decisions in teaching and research. Our bachelor program in Computer Science and our research landscape would be different, worse in fact, without your permanent engagement.

Besides your extensive and successful research activities, you are particularly deeply engaged in teaching. Generations of students have learned from you, your group, and your tool VeriFun, that formal verification is indeed a very practical issue, and that the formal way is the most profound way of reasoning about software.

You three guys are true institutions of the department (I am tempted to speak of dinosaurs, however, in an absolutely positive sense). You have seen colleagues come and go. Due to your experience and your long time of service in the department, you have become critical nodes of the department's corporate memory network. Your experience has been decisive during many discussions, typically (yet not exclusively ☺) for the better.

I should mention that each of you three guys is equipped with a specific kind of spirit. Your humorous comments, always to the point, have made many meetings amongst colleagues really enjoyable for the audience (well, the meeting chair did not always enjoy them, but that's fine). You have always combined passion with reason, spirit with analysis, vision with rationality.

On behalf of the colleagues, the department, and TU Darmstadt, I hope that you three guys will continue to have a great time together with all of us and an even longer chain of success stories than ever. Happy Birthday!

Table of Contents