

Preface

This volume contains the proceedings of the Ninth Workshop on Coalgebraic Methods in Computer Science (CMCS'08). The workshop was held in Budapest, Hungary from April 4 until April 6, 2008, as a satellite event to the European Joint Conference on Theory and Practice of Software (ETAPS'08). The aim of the CMCS workshop series is to bring together researchers with a common interest in the theory of coalgebras and its applications. Previous workshops have been organized in Lisbon (1998), Amsterdam (1999), Berlin (2000), Genoa (2001), Grenoble (2002), Warsaw (2003), Barcelona (2004) and Vienna (2006). Starting from 2004 CMCS has become biennial, alternating with CALCO, which, for odd-numbered years, has been formed by the union of CMCS with WADT.

Coalgebras have been found extremely useful for capturing state-based dynamical systems, such as transition systems, automata, process calculi, and class-based systems. The theory of coalgebras has developed into a field of its own interest, presenting a deep mathematical foundation and a growing domain of applications and interactions with various other fields, such as reactive and interactive systems theory, object oriented and concurrent programming, formal system specification, modal logic, dynamical systems, control systems, category theory, algebra, and analysis.

The program committee of CMCS'08 consisted of

- Jiří Adámek, Technical University of Braunschweig, Germany (chair);
- Corina Cîrstea, University of Southampton, UK;
- Neil Ghani, University of Nottingham, UK;
- H. Peter Gumm, University of Marburg, Germany;
- Bart Jacobs, University of Nijmegen, The Netherlands;
- Clemens Kupke, CWI, Amsterdam, The Netherlands (co-chair);
- Alexander Kurz, University of Leicester, UK;
- Ugo Montanari, University of Pisa, Italy;
- Larry Moss, Indiana University, Bloomington, USA;

- John Power, University of Bath, UK;
- Jan Rutten, CWI, Amsterdam, The Netherlands;
- Lutz Schröder, University of Bremen, Germany;
- Tarmo Uustalu, Tallinn University of Technology, Estonia;
- Yde Venema, University of Amsterdam, The Netherlands;
- Hiroshi Watanabe, AIST, Osaka, Japan.

The papers were refereed by the program committee and by several outside referees, whose help is gratefully acknowledged. The keynote speaker at the workshop was

- Dexter Kozen, Cornell University, USA;

and the invited speakers were

- Stefan Milius, Siemens AG, Germany;
- Dirk Pattinson, Imperial College London, UK.

The proceedings of the previous CMCS workshops appeared as ENTCS Volumes 11, 19, 33, 44.1, 65.1, 82.1, 106 and 164.1. ENTCS is published electronically. The volumes in the ENTCS series are available online at <http://www.elsevier.com/locate/entcs>. We are grateful to ENTCS for their continuing support, in particular to Mike Mislove, Managing Editor.

For the ninth time, CMCS has been organized as satellite event to ETAPS. We are very grateful to the ETAPS organizers for taking care of all the local organization and for accommodating all our special requests.

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