Preface

This volume contains the final proceedings of the Eighth Workshop on Coalgebraic Methods in Computer Science, CMCS’06. The workshop was held in Vienna, Austria between March 25 and 27, 2006, as a satellite event of the European Joint Conference on Theory and Practice of Software, ETAPS’06. 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 organised in Lisbon (1998), Amsterdam (1999), Berlin (2000), Genoa (2001), Grenoble (2002), Warsaw (2003), and Barcelona (2004), since which 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 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, 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, analysis, etc.

The programme committee of CMCS’06 consisted of

- Luis Barbosa, University of Minho, Portugal;
- Neil Ghani, University of Nottingham, UK;
- Hans Peter Gumm, University of Marburg, Germany;
- Marina Lenisa, University of Udine, Italy;
- Stefan Milius, University of Braunschweig, Germany;
- Larry Moss, Indiana University, Bloomington, USA;
- John Power, University of Edinburgh, UK;
- Jan Rutten, CWI, Amsterdam, The Netherlands;
- Hendrik Tews, Dresden University of Technology, Germany;

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• Tarmo Uustalu, Tallinn University of Technology, Estonia;
• Hiroshi Watanabe, AIST, Osaka, Japan.

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

• Peter O’Hearn, Microsoft Research and Queen Mary, University of London, UK; *Local Action*

and the invited speakers were

• Corina Cirstea, University of Southampton, UK; *Modularity in Coalgebra*
• Alexander Kurz, University of Leicester, UK. *Stone Duality for Coalgebraic Modal Logic*

The proceedings of the previous CMCS workshops appeared as ENTCS Volumes 11, 19, 33, 44.1, 65.1, 82.1, and 106. We are grateful to ENTCS for its continuing support, in particular to Mike Mislove, Managing Editor.

For the eighth time, CMCS has been organised as a satellite event of ETAPS. We are very grateful to the ETAPS organisers for taking care of all the local organisation and for accommodating all our special requests.

Neil Ghani
John Power
*Nottingham and Edinburgh*