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Preface

This volume contains the proceedings of the 18th international workshop on Expressiveness in Concurrency (EXPRESS'11) which was held on September 5, 2011 in Aachen, Germany, as a satellite event of CONCUR'11.

The purpose of the EXPRESS workshops is to bring together researchers interested in the relations between various formal systems, particularly in the field of Concurrency. Their focus has traditionally been on the comparison of programming concepts (such as concurrent, functional, imperative, logic and object-oriented programming) and of models of computation (such as process algebras, Petri nets, event structures and rewrite systems) on the basis of their relative expressive power. The EXPRESS workshop series has run successfully since 1994 and over the
years this focus has become broadly construed. We now solicit contributions on formal models that broadly relate to concurrency (e.g., also including computational paradigms such as quantum computing, biocomputing, game-theoretic models, and service-oriented computing), and logics to reason about such formal models.

In response to this year's call for papers, we received twelve paper submissions. The programme committee selected nine papers for presentation at the workshop. These proceedings contain these selected contributions. The workshop also had two invited presentations:

- **Applied Process Calculi Made Easy as Pi** by Björn Victor, and
- **Why Modal Characterizations of Process Semantics Totally Rock** by Wan Fokkink (joint with SOS’11).

We would like to thank the authors of the submitted papers, the invited speakers, the members of the programme committee, and their subreviewers for their contribution to both the meeting and this volume. We also thank the CONCUR’11 organizing committee for hosting EXPRESS’11. Finally, we would like to thank our EPTCS editor Rob van Glabbeek for publishing these proceedings and his help during the preparation.

*Bas Luttik and Frank D. Valencia,*  
*Eindhoven and Paris, August 2011.*

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