Contents

Preface ................................................................. ii

Message from the Program Committee Chair ........................................ iii
  Klaus Ostermann—Philipps-Universität Marburg, Germany

StrongRelaxAJ: integrating adaptability of RelaxAJ and expressiveness of StrongAspectJ ................. 1
  Tomoyuki Aotani—University of Tokyo, Japan
  Manabu Toyama—University of Tokyo, Japan
  Hidehiko Masuhara—University of Tokyo, Japan

Translucid Contracts for Aspect-oriented Interfaces ........................................ 5
  Mehdi Bagherzadeh—Iowa State University, USA
  Hridesh Rajan—Iowa State University, USA
  Gary T. Leavens—University of Central Florida, USA

A Smooth Combination of Role-based Language and Context Activation ....................... 15
  Tetsuo Kamina—University of Tokyo, Japan
  Tetsuo Tamai—University of Tokyo, Japan

Towards An Open Trace-Based Mechanism .................................................. 25
  Paul Leger—University of Chile, Chile
  Eric Tanter—University of Chile, Chile

Specifying and Exploiting Advice-Execution Ordering using Dependency State Machines ........... 31
  Eric Bodden—Center for Advanced Security Research, Darmstadt, Germany

Semantic Aspect Interactions and Possibly Shared Join Points ............................ 43
  Emilia Katz—Technion–Israel Institute of Technology, Israel
  Shmuel Katz—Technion–Israel Institute of Technology, Israel

Rewriting Logic Model of Compositional Abstraction of Aspect-Oriented Software ............... 53
  Yasuyuki Tahara—University of Electro-Communications, Japan
  Akihiko Ohsuga—University of Electro-Communications, Japan
  Shinichi Honiden—National Institute of Informatics and Univ. of Tokyo, Japan

Modeling Aspects by Category Theory ....................................................... 63
  Serge P. Kovalyov—Institute of Computational Technologies, Russia