Contents

Foreword ........................................ iii

Modeling and Requirements on the Physical Side of Cyber-Physical Systems
  Mats P. E. Heimdahl, Lian Duan, Anitha Murugesan, and Sanjai Rayadurgam — University of Minnesota, USA ........ 1

Elaboration on an Integrated Architecture and Requirement Practice: Prototyping with Quality Attribute Focus
  Stephany Bellomo, Robert L. Nord, and Ipek Ozkaya — SEI, USA .......................................................... 8

How the Understanding of the Effects of Design Decisions Informs Requirements Engineering
  Zoya Durdik, Anne Koziolek, and Ralf H. Reussner — KIT, Germany .......................................................... 14

A Multitude of Requirements and yet Sole Deployment Architecture: Predictors of Successful Software Deploy-
  ment
  Naomi Unkelos-Shpigel and Irit Hadar — University of Haifa, Israel .......................................................... 19

Evolving Software Requirements and Architectures using Software Product Line Concepts
  Hassan Gomaa — George Mason University, USA .......................................................... 24