

Contents

| | | |
|-----------|---|------------|
| 1 | Introduction | 1 |
| | Alexander Romanovsky and Martyn Thomas | |
| 2 | Integrated Project DEPLOY | 5 |
| | Alexander Romanovsky | |
| 3 | Experience of Deployment in the Automotive Industry | 13 |
| | Rainer Gmehlich and Cliff Jones | |
| 4 | Improving Railway Data Validation with ProB | 27 |
| | Jérôme Falampin, Hung Le-Dang, Michael Leuschel, Mikael Mokrani, and Daniel Plagge | |
| 5 | Deployment in the Space Sector | 45 |
| | Dubravka Ilić, Linas Laibinis, Timo Latvala, Elena Troubitsyna, and Kimmo Varpaaniemi | |
| 6 | Business Information Sector | 63 |
| | Sebastian Wieczorek, Vitaly Kozyura, Wei Wei, Andreas Roth, and Alin Stefanescu | |
| 7 | Formal Methods as an Improvement Tool | 81 |
| | Aryldo G. Russo Jr. | |
| 8 | Critical Software Technologies’ Experience with Formal Methods . . | 97 |
| | Alex Hill, Jose Reis, and Paulo Carvalho | |
| 9 | Experience of Deploying Event-B in Industrial Microprocessor Development | 107 |
| | Stephen Wright and Kerstin Eder | |
| 10 | Industrial Deployment of Formal Methods: Trends and Challenges . | 123 |
| | John Fitzgerald, Juan Bicarregui, Peter Gorm Larsen, and Jim Woodcock | |
| 11 | Introducing Formal Methods into Existing Industrial Practices . . . | 145 |
| | Martyn Thomas and Alexander Romanovsky | |

12 Tooling 157
Michael Butler, Laurent Voisin, and Thomas Muller

13 Technology Transfer 187
David Basin and Thai Son Hoang

14 After and Outside DEPLOY: The DEPLOY Ecosystem 197
Alexander Romanovsky

15 Industrial Software Engineering and Formal Methods 203
Martyn Thomas and Alexander Romanovsky

Appendix A An Introduction to the Event-B Modelling Method 211
Thai Son Hoang

**Appendix B Evidence-Based Assistance for the Adoption of Formal
Methods in Industry 237**
Jean-Christophe Deprez, Christophe Ponsard, and Renaud De Landtsheer

Industrial Deployment of System Engineering Methods

Romanovsky, A.; Thomas, M. (Eds.)

2013, X, 262 p., Hardcover

ISBN: 978-3-642-33169-5