## Contents

### Invited Contribution

Using Formal Methods for Verification and Validation in Railway .......... 3  
*Klaus Reichl, Tomas Fischer, and Peter Tummeltshammer*

### Regular Contributions

Monadic Sequence Testing and Explicit Test-Refinements ................. 17  
*Achim D. Brucker and Burkhart Wolff*

Advances in Property-Based Testing for zProlog. ................. 37  
*James Cheney, Alberto Momigliano, and Matteo Pessina*

Tests and Proofs for Enumerative Combinatorics. .......... 57  
*Catherine Dubois, Alain Giorgetti, and Richard Genestier*

Classifying Test Suite Effectiveness via Model Inference and ROBBDs. .. 76  
*Hermann Felbinger, Ingo Pill, and Franz Wotawa*

Lightweight Symbolic Verification of Graph Transformation Systems with Off-the-Shelf Hardware Model Checkers. .......... 94  
*Sebastian Gabmeyer and Martina Seidl*

Testing-Based Formal Verification for Theorems and Its Application in Software Specification Verification .......... 112  
*Shaoying Liu*

Your Proof Fails? Testing Helps to Find the Reason .......... 130  
*Guillaume Petiot, Nikolai Kosmatov, Bernard Botella, Alain Giorgetti, and Jacques Julliand*

Classifying Bugs with Interpolants .......... 151  
*Andreas Podelski, Martin Schäf, and Thomas Wies*

### Tool Demonstration

Debugging Meets Testing in Erlang .......... 171  
*Salvador Tamarit, Adrián Riesco, Enrique Martin-Martín, and Rafael Caballero*
Short Contributions

Combining Dynamic and Static Analysis to Help Develop Correct Graph Transformations .................................................. 183
   Amani Makhlouf, Hanh Nhi Tran, Christian Percebois,
   and Martin Strecker

   Franck Slama

Author Index .......................................................... 199
Tests and Proofs
10th International Conference, TAP 2016, Held as Part of STAF 2016, Vienna, Austria, July 5-7, 2016, Proceedings
Aichernig, B.K.; Furia, C.A. (Eds.)
2016, XIV, 199 p. 51 illus., Softcover
ISBN: 978-3-319-41134-7