

2018 ACM/IEEE 5th International Workshop on Requirements Engineering and Testing **RET 2018**

Table of Contents

| | |
|--|------|
| Message from the ICSE 2018 General Chair | vii |
| Message from the RET 2018 Chairs | x |
| Organizing Committee for RET 2018 | xii |
| Program Committee for RET 2018 | xiii |
| ICSE 2018 Sponsors and Supporters | xiv |

Testing Efficiency

| | |
|---|---|
| Cluster-Based Test Scheduling Strategies Using Semantic Relationships between Test Specifications | 1 |
| <i>Sahar Tahvili (RISE SICS Västerås), Leo Hatvani (Mälardalen University), Michael Felderer (University of Innsbruck), Wasif Afzal (Mälardalen University), Mehrdad Saadatmand (RISE SICS Västerås), and Markus Bohlin (RISE SICS Västerås)</i> | |
| Automated Test-Design from Requirements - The Specmate Tool | 5 |
| <i>Dietmar Freudenstein (Allianz Deutschland AG), Maximilian Junker (Technische Universität München), Jeannette Radduenz (Allianz Deutschland AG), Sebastian Eder (Technische Universität München), and Benedikt Hauptmann (Technische Universität München)</i> | |
| Test Case Quality as Perceived in Sweden | 9 |
| <i>He Tan (Jönköping University) and Vladimir Tarasov (Jönköping University)</i> | |

Blurring the Lines between Requirements Engineering and Testing

| | |
|--|----|
| A Case Study of Interactive Development of Passive Tests | 13 |
| <i>Daniel Flemström (RISE SICS Västerås AB), Thomas Gustafsson (Scania CV AB), and Avenir Kobetski (RISE SICS AB)</i> | |
| Toward a Functional Requirements Prioritization with Early Mutation Testing | 21 |
| <i>Nelly Condori-Fernandez (Universidade da Coruna), Maria Fernanda Granda (University of Cuenca), and Tanja Vos (Universidad Politécnica de Valencia)</i> | |

Requirements Quality Impact on Testing

| | |
|---|-----------|
| Measuring and Improving Testability of System Requirements in an Industrial Context by Applying the Goal Question Metric Approach | 25 |
| <i>Armin Beer (Beer Test Consulting) and Michael Felderer (University of Innsbruck)</i> | |
| Ambiguous Software Requirement Specification Detection: An Automated Approach | 33 |
| <i>Mohd Hafeez Osman (Technical University of Munich) and Mohd Firdaus Zaharin (Ministry of Education)</i> | |
| Author Index | 41 |