

Preface

The continuous rise of software complexity with increased functionality and accessibility of software and electronic components leads to an ever-growing demand for techniques to ensure software quality, dependability, safety, and security. The risk that software systems do not meet their intended level of quality can have a severe impact on vendors, customers, and even — when it comes to critical systems and infrastructures — daily life. The precise understanding of risks, as well as the focused treatment of risks, has become one of the cornerstones for critical decision making within complex social and technical environments. A systematic and capable risk and quality assessment program and its tight integration within the software development life cycle are key to building and maintaining secure and dependable software-based infrastructures.

This volume contains the proceedings of the Third International Workshop on Risk Assessment and Risk-Driven Testing (RISK 2015) held in June 2015 in Berlin, Germany, in conjunction with the OMG Technical Meeting, June 15–19, 2015. The workshop brought together researchers from the European Union to address systematic approaches combining risk assessment and testing. During the workshop, eight peer-reviewed papers were presented and actively discussed. The workshop was structured into three sessions namely: “Risk Assessment,” “Risk and Development,” and “Security Testing.” The program was completed by a keynote on “Fundamental Principles of Safety Assurance” from Prof. Tim Kelly.

Owing to its integration with the OMG Technical Meeting, the workshop initiated a fruitful discussion between participants from industry and academia.

We would like to take this opportunity to thank the people who contributed to the RISK 2015 workshop. We want to thank all authors and reviewers for their valuable contributions, and we wish them a successful continuation of their work in this area.

September 2015

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Risk Assessment and Risk-Driven Testing

Third International Workshop, RISK 2015, Berlin,

Germany, June 15, 2015. Revised Selected Papers

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M.-F. (Eds.)

2015, IX, 121 p. 39 illus. in color., Softcover

ISBN: 978-3-319-26415-8