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Dependable Software Engineering

Theories, Tools, and Applications

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Preface

This volume contains the papers presented at the 5th Symposium on Dependable Software Engineering: Theories, Tools, and Applications (SETTA 2019) series of conferences – held during November 27–29, 2019, in Shanghai, China. The purpose of SETTA is to provide an international forum for researchers and practitioners to share cutting-edge advancements and strengthen collaborations in the field of formal methods and its interoperability with software engineering for building reliable, safe, secure, and smart systems. Past SETTA symposiums were successfully held in Nanjing (2015), Beijing (2016), Changsha (2017), and Beijing (2018).

SETTA 2019 attracted 26 submissions co-authored by researchers from 12 countries. Each submission was reviewed by at least three Program Committee members with help from additional reviewers. The Program Committee discussed the submissions online and decided to accept eight papers for presentation at the conference. The program also included three invited talks given by Prof. Wang Yi from Uppsala University, Sweden, Dr. Kuldeep S. Meel from National University of Singapore, Singapore, and Haibo Chen from Shanghai Jiaotong University, China. The 4th National Conference on Formal Methods and Applications in China was also co-located with SETTA 2019 during November 30–December 1, 2019.

We would like to express our gratitude to the authors for submitting their papers to SETTA 2019. We are particularly thankful to all members of Program Committee and the additional reviewers, whose hard and professional work in the review process helped us prepare the high-quality conference program. Special thanks go to our invited speakers for presenting their research at the conference. We would like to thank the Steering Committee for their advice. Finally, we thank the conference general chair, Prof. Yuxi Fu, and the publicity chairs, Dr. Yu Pei and Dr. Tom van Dijk.

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