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George Fletcher · Keisuke Nakano ·
Yuya Sasaki (Eds.)


Software Foundations for Data Interoperability

5th International Workshop, SFDI 2021
Copenhagen, Denmark, August 16, 2021
Revised Selected Papers

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Preface

This volume contains the papers presented at Fifth Workshop on Software Foundations for Data Interoperability (SFDI 2021) held on August 16, 2021, as a hybrid conference: physically in Copenhagen, Denmark, for all attendees who could travel to Copenhagen and remotely for everybody else.

The SFDI workshop aims at fostering discussion, exchange, and innovation in research and development in software foundations for data interoperability as well as the applications in real-world systems such as data markets. We invite not only people from the database community but also researchers and professionals from the areas of programming language, software engineering, distributed computing, artificial intelligence, and natural language processing to share their knowledge and experience.

For example, bidirectional transformation has been intensively studied in both database and programming language communities to address the view update problem, and a recent trend is to use bidirectional transformation for data sharing and data interoperability in P2P networks. In addition, many machine learning and natural language processing models have been utilized for data management, especially for data integration tasks. We thus hope to bring together academia and industry people in related areas for the discussion of challenges and technical solutions to software foundations of data interoperability.

SFDI 2021 adopted a single-blinded peer review process. Each submission was reviewed based on relevance, novelty, technical depth, experiments, presentation, etc., by three Program Committee (PC) members and external reviewers. After careful and thorough discussions, the PC accepted five papers from eight submissions. The program also included two invited talks by Juan Sequeda and Perdita Stevens. This post-proceedings volume contains an extended abstract of Perdita's talk and a summary of the BISCUITS project led by Zhenjiang Hu, Masatoshi Yoshikawa, and Makoto Onizuka.

We would like to thank all invited speakers and authors for their contributions. We are grateful to all PC members for their hard work and the help of the EasyChair conference management system for making our work of organizing SFDI 2021 much easier. This workshop was supported by JSPS KAKENHI Grant Numbers JP18H04093 and JP17H06099.

November 2021

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