The Changing Landscape of Refactoring Research in the Last Decade

Keynote of the 2nd International Workshop on API Usage and Evolution (WAPI'18)

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ABSTRACT

In the last decade refactoring research has seen exponential growth. I will attempt to map this vast landscape and the advances that the community has made by answering questions such as who does what, when, where, why, and how. I will muse on some of the factors contributing to the growth of the field, the adoption of research into industry, and the lessons that we learned along this journey. This will inspire and equip you so that you can make a difference, with people who make a difference, at a time when it makes a difference.

CCS CONCEPTS

• Software and its engineering → Software reverse engineering; Software design engineering; Software design techniques;

KEYWORDS

Refactoring, Software Engineering

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Short Biography: Danny Dig is an associate professor of computer science in the School of EECS at Oregon State University, and an adjunct professor at University of Illinois. He enjoys doing research in Software Engineering, with a focus on interactive program transformations that improve programmer productivity and software quality. He successfully pioneered interactive program transformations by opening the field of refactoring in cutting-edge domains including mobile, concurrency and parallelism, component-based, testing, and end-user programming. He earned his Ph.D. from the University of Illinois at Urbana-Champaign where his research won the best Ph.D. dissertation award, and the First Prize at the ACM Student Research Competition Grand Finals. He did a postdoc at MIT.

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