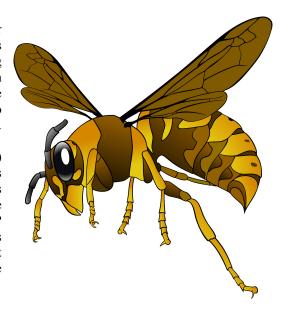# International Workshop on
Automated Specification Inference (WASPI)

Co-located with Automated Software Engineering (ASE) 2017
Monday, October 30, 2017
Urbana-Champaign, Illinois, USA

https://boalang.github.io/waspi/

Specifications provide programmers with the confidence that their implementations are correct. Formal specifications can even help tools automatically verify that the code and specification are consistent, providing additional guarantees. However, most programmers do not write such specifications as it is either too hard, too time-consuming, or requires expertise not widely available. Tools and techniques have been developed over time to (semi)automate the generation of such specifications, to varying success.

The International Workshop on Automated Specification Inference (WASPI) provides a venue for researchers and practitioners to come together and discuss the current state of the art of and challenges to specification inference techniques and tools. For example, how do we infer more complex and usable specifications? How do we increase the accuracy of the inference techniques? How do we encourage practitioners to use the inference tools and techniques more than they currently do? The goal of this workshop is to identify the most pressing open problems facing specification inference researchers and provide solid directions toward solving those problems.

Topics

Topics of interest include, but are not limited to:

- tools and techniques for automatically inferring:
    - behavioral interface specifications
    - hoare-style specifications
    - informal specifications (documentation)
    - information-flow specifications
    - model-based specifications
    - temporal specifications
- static specification inference techniques
- dynamic specification inference techniques
- automatic verification of inferred specifications
- mining software repository approaches to inference
- machine-learning approaches to inference
- inferring specifications from big data

Submission Information

WASPI 2017 invites novel contributions in the form of either **4-page short papers** or **2-page position papers** from both researchers and practitioners. Submissions can be research papers, practice papers, position papers, or experience reports. All submissions should describe unpublished work and must have been neither previously accepted for publication nor concurrently submitted for review in another journal, book, conference, or workshop. Submissions are peer-reviewed and accepted papers will appear in the workshop proceedings. Papers should be submitted electronically at:

https://easychair.org/conferences/?conf=waspi2017

Important Dates

Submissions due:	July 31, 2017 **August 14, 2017**
Author Notification:	August 28, 2017
Camera-ready due:	September 9, 2017