

Most Influential Paper from IWPC 2003

Looking back

To what this community produced 10 years ago
...and how such pieces of research influenced
researchers and practitioners

11th IEEE International Workshop on Program
Comprehension (IWPC 2003)

May 10-11 2003, Portland, Oregon

Procedure

We mined the number of citations (source: Google Scholar) for all ICPC papers, including demos and short papers

We asked PC and SC members to vote by email, providing them with the list of papers and their citation counts

COI handled during the voting

The winner is...

Most Influential Paper from IWPC 2003

presented to

Michael L. Collard, Huzefa H. Kagdi, and Jonathan I. Maletic

for the paper

“An XML-Based Lightweight C++ Fact Extractor”

Motivations

“This is one of the first papers (if not the first) for the srcML project which supports fast, automatic AST annotations in the form of XML.

It has since grown to support C & Java, and is used by researchers outside the authors.

For example, (...) corporate research relies on srcML for their internal data representation across a number of source code analysis tools.

It is becoming a standard representation that multiple program comprehension research groups take advantage of.”

Motivations

“SrcML has been extremely useful in facilitating a number of research projects in my research unit.

More generally, it impacted the program understanding community at large, by providing a lightweight, yet accurate, C++/Java syntactic analyzer.”

Motivations

“The paper proposed a lightweight fact extractor that utilizes XML utility (e.g., XPath) to extract information from C++ code represented as an XML file.

From the list of papers citing this work, the work has motivated many other studies on reverse engineering and refactoring.

The fact extractor can be used to support many program comprehension tasks which is the focus of ICPC.”