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ETX'14 - 2014 workshop on Eclipse technology exchange

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ETX'14 – 2014 Workshop on Eclipse Technology eXchange

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Abstract

The Eclipse platform was originally designed for building an integrated development environment for object-oriented applications. Over the years it has developed into a vibrant ecosystem of platforms, toolkits, libraries, modeling frameworks, and tools that support various languages and programming styles. The sixth ETX workshop provides a platform for researchers and practitioners to transfer knowledge about the Eclipse Platform and exchange new ideas. It is held in Portland, OR on October 21, 2014 and is co-located with SPLASH 2014.

Categories and Subject Descriptors D.2.0 [*Software Engineering*]: Programming Environments

Keywords Eclipse platform; integrated development environment

1. Introduction

The Eclipse project [6] started as a platform for building an integrated development environment for object-oriented applications. Over the years it has developed into a vibrant ecosystem of different platforms, toolkits, libraries, modeling frameworks, and tools that support various languages and programming styles. The project is managed by the not-for-profit Eclipse Foundation and driven by a large number of individual contributors as well as companies. Today, Eclipse is not only an important tool for building software, it is also a frequent subject to software engineering studies due to its large code base, bug tracking database, and due to having the largest coordinated release train in the open source ecosystem.

We are organizing a new edition of the Eclipse Technology eXchange (ETX) workshop format. ETX has been a very successful workshop at OOPSLA from 2003-2007 [1–5]. We feel that Eclipse is still very relevant in research and software engineering.

The goal of the ETX workshop is to bring together researchers and practitioners to exchange ideas about potential new uses of Eclipse and how Eclipse technology can be leveraged, improved, and/or extended for research and education. With this workshop we want to offer a platform to publish high quality scientific papers to show novel applications of Eclipse as well as novel technology that could become relevant for Eclipse.

The workshop will be organized as a one-day mini-conference and include the presentation of original papers on a number of topics related to the Eclipse platform as well as invited talks and a keynote.

2. Areas of Interest

Workshop topics include, but are not limited to, the use of Eclipse for:

- Integrated Development Environment (IDE)
- Supporting the software development process
- Debugging and testing
- Supporting design, requirements, and specifications
- Modeling environments and frameworks
- Aspect-oriented programming
- Program analysis and transformation
- Computer-based learning
- Software engineering education
- Teaching foundations of object-oriented programming
- Courseware
- Rich client application
- OSGi
- Applications on the Internet of Things
- Programming for an in the Cloud.
- Supporting the development of Android applications

3. Workshop Organization

Organizers

Jan S. Rellermeyer (IBM Austin Research Lab, USA)
Jan is a researcher at IBM Research, an adjunct faculty at the University of Texas at Austin, and has been an Eclipse committer for many years. Furthermore, he has been an Invited Researcher of the OSGi Alliance, the standards group which develops the technology that the Eclipse platform is based on. Recently, Jan became the project lead of the Eclipse Concierge project and is actively working in the Eclipse IoT group. Jan's research interests revolve around systems and programming languages.

Tim Verbelen (iMinds - Ghent University, Belgium) Tim is a postdoctoral researcher at iMinds, Ghent University and his primary research interests revolve around programming support for real-time applications such as augmented reality on mobile devices. He has been using Eclipse technology in his research for a long time and recently became an Eclipse committer.

Program Committee

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Tim Verbelen, Ghent University, Belgium

3.1 Review Process

We conducted a single-blind review process and every submitted paper received at least three reviews.
We would like to thank the PC committee members for their time and helpful contributions.

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