Call for papers for Dyla'13

7th Workshop on Dynamic Languages and Applications with ECOOP'13, July 1st 2013, Montpellier, France

Abstract. Java and C# have been a major influence in the adoption of object-oriented language characteristics: academic features like interfaces, garbage collection, and meta-programming became technologies generally accepted by the industry. However, with the adoption of these languages, their limitations became apparent, as testified by industry reactions: `invokedynamic` has been included in the latest Java virtual machine release; the dynamic language runtime (DLR) is gaining popularity; C# adopted `dynamic` as a valid static type. Gartner predicts further growth of dynamic languages.

Researchers and practitioners struggle with static type systems, overly complex abstract grammars, simplistic concurrency mechanisms, limited reflection capabilities, and the absence of higher-order language constructs such as delegation, closures, and continuations. Dynamic languages such as Ruby, Python, JavaScript and Lua are a step forward in addressing these problems and are getting more and more popular. To make these languages mainstream, practitioners have to look back and pick mechanisms up in existing dynamic languages such as Lisp, Scheme, Smalltalk and Self. They also need to explore dynamic approaches in the context of new challenging fields such as pervasive computing.

The goal of this workshop is to act as a forum where practitioners can discuss new advances in the design, implementation and application of dynamically typed languages that, sometimes radically, diverge from the statically typed class-based mainstream. Another objective is to discuss new as well as older "forgotten" languages and features in this context.

Topics of interest   (not limited to)

programming language extensions	programming environment extensions	domain-specific languages & tooling
executing environments	static & dynamic analyses	meta-object protocols / optional type-checking
reverse engineering	testing environments	live programming

Targeted audience

The expected audience of this workshop is practitioners and researchers sharing the same interest in dynamically typed languages. Lua, Python, Ruby, Scheme and Smalltalk are gaining a significant popularity both in industry and academia. Nevertheless, each community has the tendency to only look at what it produces. Broadening the scope of each community is the goal of the workshop. To achieve this goal we will form a PC with leading persons from all languages mentioned above, fostering participation from all targeted communities.

Workshop Format and Submission Information

The workshop will have a demo-oriented style. The idea is to allow participants to demonstrate new and interesting features and discuss what they feel is relevant for the dynamic-language community. To participate to the workshop, you can either

- submit (before *April 22nd 2013*) an article (ACM Tighter Alternate style http://www.acm.org/sigs/publications/proceedings-templates) describing your presentation and/or tool. Articles whose length ranges from 2 to 15 pages will be carefully reviewed by a program committee including but not limited to the organizers. Each accepted paper will be presented for 20 to 30 minutes and be published to the ACM Digital Library (at the option of each author) and the workshop's web site. The submission website is http://www.easychair.org/conferences/?conf=dyla2013.

- or give a 10-minute lightning demo of your work. A dedicated session will be allocated for this, provided there is ample time available.

A session on pair programming is also planned. People will then get a chance to share their technologies by interacting with other participants.

Program committee

- Carl Friedrich Bolz, Heinrich-Heine-Universitt Dsseldorf, Germany
- Camillo Bruni, Inria Lille-Nord Europe, France
- Adrian Kuhn, University of British Columbia, Canada
- Lukas Renggli, Google, Switzerland
- Juan Pablo Sandoval Alcocer, University of Chile
- Bastian Steinert, Hasso-Plattner-Institute, Germany
- Veronica Uquillas Gomez, Vrije Universiteit Brussel, Belgium
- Simon Urli, University of Nice-Sophia Antipolis, France
- Didier Verna, EPITA Research and Development Laboratory, France
- the 4 workshop organizers