Invited Talk Walter Cazzola, Università degli Studi di Milano, Italy

Monday, 21.01.2019, 14:50, APB 3105

Title: Neverlang an Interpreter for a Non-Existent Language

Abstract:

Often an ad hoc programming language integrating features from different programming languages and paradigms represents the best choice to express a concise and clean solution to a problem. But, developing a programming language is not an easy task and this often discourages one from developing problem-oriented or domain-specific languages. To foster DSL development and to favor clean and concise problem-oriented solutions we developed Neverlang.
The Neverlang framework provides a mechanism to build custom programming languages up from features coming from different languages. The composability and flexibility provided by Neverlang permit to develop a new programming language by simply composing features from previously developed languages and reusing the corresponding support code (parsers, code generators, ...). This talk will introduce Neverlang and it will demonstrate its potentiality through a language product line for Javascript variants to be used in support of progressive teaching.

Bio:

Walter Cazzola is currently an Associate Professor in the Department of Computer Science of the Università degli Studi di Milano, Italy and the Chair of the ADAPT laboratory. Dr. Cazzola is the designer of the mChaRM framework, of the @Java, [a]C\#, Blueprint programming languages and he is currently involved in the designing and development of the Neverlang language workbench. He is also the designer of the JavAdaptor dynamic software updating (DSU) framework and of its front-end FiGA. He has written over 100 scientific papers. His research interests include (but are not limited to) reflection, aspect-oriented programming, software evolution, programming methodologies and languages. He served on the program committees or editorial boards of the most important conferences and journals about his research topics. He is associated editor for the Journal of Computer Languages published by Elsevier.
More information about Dr. Cazzola and all his publications are available from his web page at http://cazzola.di.unimi.it and he can be contacted at cazzola@di.unimi.it for any question.