

Workshop de Software Livre 2016

Filipe de O. Saraiva¹, Igor Scaliante Wiese²

¹Faculdade de Computação – Instituto de Ciências Exatas e Naturais
Universidade Federal do Pará (UFPA)
Belém – Pará – Brazil

²Universidade Tecnológica Federal do Paraná (UTFPR)
Campo Mourão – Paraná – Brazil

saraiva@ufpa.br, igor@utfpr.edu.br

Abstract. *“Workshop de Software Livre” is an academic event focused on themes related to free and open source software. This meta-paper describes the seventeenth edition of the event bringing information about the workshop and presenting the papers submitted.*

1. Introduction

The International Free Software Forum (FISL – *Fórum Internacional de Software Livre* in Portuguese) is one of the biggest events related to free/open source software and associated themes in the world. FISL is held in Porto Alegre, Brazil, since its first edition in 2000.

From that very first edition, FISL has had a satellite event with an academic approach to those same themes. The event is called Workshop on Free Software (WSL – *Workshop de Software Livre* in Portuguese).

In WSL, the submissions are peer-reviewed by researchers with an interest in the workshop themes. The papers submitted must describe results of a research or a software (with respective source code). The texts should be original, with literature review supporting the study performed and can be written in English, Portuguese or Spanish.

If the paper is accepted, the authors must present the results in WSL. After the presentation, the papers are released free of costs in WSL open access repository for the workshop proceedings available on <http://wsl.softwarelivre.org/>.

In these seventeen editions, WSL published papers from researchers of several countries of the world in a wide range of themes. However, after all these years, there is still some space for improvements in WSL organization.

The main innovation in WSL 2016 edition was the tool’s track: the specific call for papers describing software. Since his first edition WSL has published papers about software where the main topic is the description of the software itself. However, there had never been concerns with some requirements like the availability of the source code, among other things.

Several requirements have been specified this year for the paper that describes a software such as the compatibility of the source code with some free and open source set of licenses, the availability of some communication channel with developers, an explanation about software dependencies and how to build the source code, and more.

We expect this requirement to improve the quality of the papers describing the software and make this type of work more interesting for our readers.

2. Numbers

For the WSL 2016 edition, 24 papers were submitted but just 10 papers were accepted – the rate of acceptance was of 41%. Six papers were rejected by the chairs in the preliminary evaluation phase while the peer-reviewers rejected the others 8.

From the 10 papers accepted, 6 were submitted to tool's track while 4 were submitted to general track.

WSL 2016 edition was organized by 2 chairs and the program committee was composed by a group of 32 members (+ the 2 chairs the number of members grows to 34 people).

Each paper was reviewed by at least 3 reviewers, performing 54 reviews in total. If we add the preliminary reviews for the papers rejected by the chairs, the total number of reviews performed were 60.

From those 10 papers accepted, 9 were presented during the workshop.

3. Papers presented

After the filter of the review process, the following papers were presented and now are available in WSL open access repository.

From Costa Rica, Alfaro *et al.* has presented a software for the scanning process of documents using a low-cost scanner.

Oschoski and Lacerda has presented an API for visualization of bug tracking repositories.

Lima and Pinto has developed a system using Arduino and some sensors to detect the presence of people inside a car after parking in order to warn the driver and save lives, mainly children.

Morales *et al.* has presented wiRed Panda, an interesting software for studies of digital circuits and boolean logic.

De Melo *et al.* has developed a software to the calculation of ET_0 , a variable to measure evapotranspiration, allowing the farmers to make a decision about how much water will be used in the irrigation process.

Ribas *et al.* has reported the experience with free software during the creation of financial math lessons using LibreOffice Calc.

Licks, Costella, and Teixeira have presented a low-cost solution to learn programming and robotics. From the same research group, Costella, Licks, and Trentin have presented a methodology for robotics competition using free software and reported the results collected in some competitions performed.

Marasca *et al.* has reported the results and the process of migration to open standards of digital documents in a research center.

4. Acknowledgment

The chairs, Filipe de O. Saraiva and Igor Scaliante Wiese, would like to thank all the authors of papers submitted to WSL 2016. We would like to see you and the results of your current work in next edition of WSL.

Thank you for the program committee, accountable for improving the quality of the workshop as a rigorous peer-review process. In alphabetical order: Alfredo Goldman, Antônio Terceiro, Aracele Torres, Auri Vicenzi, Carlos Denner dos Santos, Christina Chavez, Daniel Batista, Eduardo Guerra, Fabio Kon, Fabricio Solagna, Francisco José Monaco, Gregorio Robles, Gregory Madey, Igor Steinmacher, Islene Calciolari Garcia, Joaquim Uchôa, José Carlos Maldonado, Kevin Crowston, Marcelo Finger, Marco Aurélio Graciotto Silva, Marco Gerosa, Nelson Pretto, Paulo Meirelles, Rafael Evangelista, Rafael Prikladnicki, Reginaldo Ré, Roberto Bittencourt, Rodrigo Rocha Gomes e Souza, Sabrina Marczak, Sandro Andrade, Scott Hissam, and Walt Scacchi.

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