The Algorithmic-Autoregulation essay

a collective and natural focus on self-transparency

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January 13, 2015

Abstract

There are numerous pursues for a lightweight and systematic account of what is done by a group and containing individuals. The AA (Algorithmic-Autoregulation) is a special case, in which a technical community embraced the challenge of registering their own dedication for sharing processes, self-transparency enhancements, and prove dedication. AA is used since June/2011 by dozens of users, with the support of different software gadgets and for distinct tasks. Intermittence and activity concentration of users activity follows expected natural properties. Social participation and ontological understandings of AA eases comparative analysis and furthers integration.

Resumo

Keywords: distributed development, floss, social participation, OWL, statistics, anthropological physics

Contents

1 AA start

The Algorithmic Autorregulation (AA) is a self-transparency mechanism for sharing processes, proving dedication, and enhance personal of collective self-transparency. Purposes for AA usage are numerous: enable automated and fair compensation for dedications, ease co-working, introduce newcommers, and keeping public historical logs of activities, etc. Indeed, other systems have been designed for such a task (see Section 1.1). A brief characterization of AA is:

- The collective origin, purpose and upkeep. This is a free-culture trait, present within many software, and leads to open software and data as described in Section 2.
- Voluntary logging of messages about ongoing work.
- Aimed at coordinating distributed team work through individual merit.
- More a practice than a software: AA presents variations on the software support and message composition. Often present are screencasts, peer validation and periodic messaging.

Transparency in this context should be understood as usual organization or State transparency is: a public account of activities [1]; not directly as

transparency in self-knowledge, as is the case in some philosophical and political contexts [2]. One should reach [3] for a noteworthy overview of AA as a Global Software Development (GSD).

1.1 Related work

Authors know of no *civil society transparency* platform. There is a number of transparency initiatives for governments [4], for religious parties [**?**] and for private institutions [**?**]. Data analysis methods are derived from Natural Language Processing (NLP) and Complex Networks (CN) fields, constituting a hybrid framework of classical [5, 6] and novel [7, 8] approaches.

1.2 Historical note

7th June, 2013, Cleodon Silva [9] died by heart failure. In his memory, the labMacambira.sf.net group was born (Macambira was one of this pseudonyms). The AA was conceived as the "cardiac pulse" of the group and is in constant usage since July, 2011. It gathers thousands of messages, tenths of users and hundreds of processes. AA messages presents contributions, such as commits to official repositories of Evince, Firefox, OpenOffice, Puredata and other software [3]. Also, a number of other activities were registered: new software ellaboration and coding, writing of articles, wikis and etherpads; articulation of civil society, academic and State instances; studies and reviews. Even so, AA is highly biased to software development, as can be observed in Sections 3 and 4.

2 AA Systems and data

There are different software support for AA. Also, distinct use methods are incident. This section exposes this diversity and their integration, as linked data, both within AA variants and within participatory instances.

2.1 Software support

There are mainly two software pieces written to support AA activity, each a server and client suite (see Sections 2.1.1 and 2.1.2). Automated conversational agents (software [ro]bots) were used as User Interface (UI), with a highlight for the Lalenia bot (see Section 2.1.3) and a initiative to make AA available in all chat networks (see Section 2.1.4).

2.1.1 AA php casca e cliente

Although deprecated in favor of AA 01, this first AA software presents the most numerous set of functionalities.

2.1.2 aa 01

2.1.3 Lalenia interface

2.1.4 Ubiquitous AA

Table 1: All considered AA versions and their databases.

version name	main language	user interface	database

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