Observing an Open Learning Process – Friday Oct 17, 3 pm, rm 4-231

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Talk Description
For acting on the flow of an activity, one must be able to observe and "understand" the activity. This is true for each and every actor involved in the process, whether they are the instigator of the activity, the assistants in charge of facilitating the activity, or even the people responsible for designing methods and tools to actually perform the activity. Observing for understanding and acting on an activity flow is a knowledge engineering process: we must enable reasoning on knowledge learnt from observation in order to act on the observed world.

The context of open online learning on the web requires one to design learning environments by facilitating the observation and understanding of the activity, and thus the process of "acting" on the activity flow. This must take place within a dynamic and reflexive process.

The SILEX (Supporting Interactions and Learning from Experience) research group develops the theory of modeled traces to support a dynamic knowledge engineering process[1]. Interactions performed by the couple « user-digital environment » are learnt as situated knowledge (or situated experiences).

The talk focuses on dynamic knowledge construction and modeled trace theory, and shows its application to user assistance in MOOCs. The talk also presents TraceMe[2], an open tool for trace-based applications[3]. Dynamic knowledge construction is a reflexive process ensuring that learners better appropriate their own traces. Indeed, personal activity traces become digital objects that can be reused and shared providing the existence of a sharing policy defined by the owner of the trace.

The talk ends with insights on the generalization of our approach to the questions of developmental learning and radical interactionism in artificial agents[4]. A research MOOC on that topic is now opening[5]!

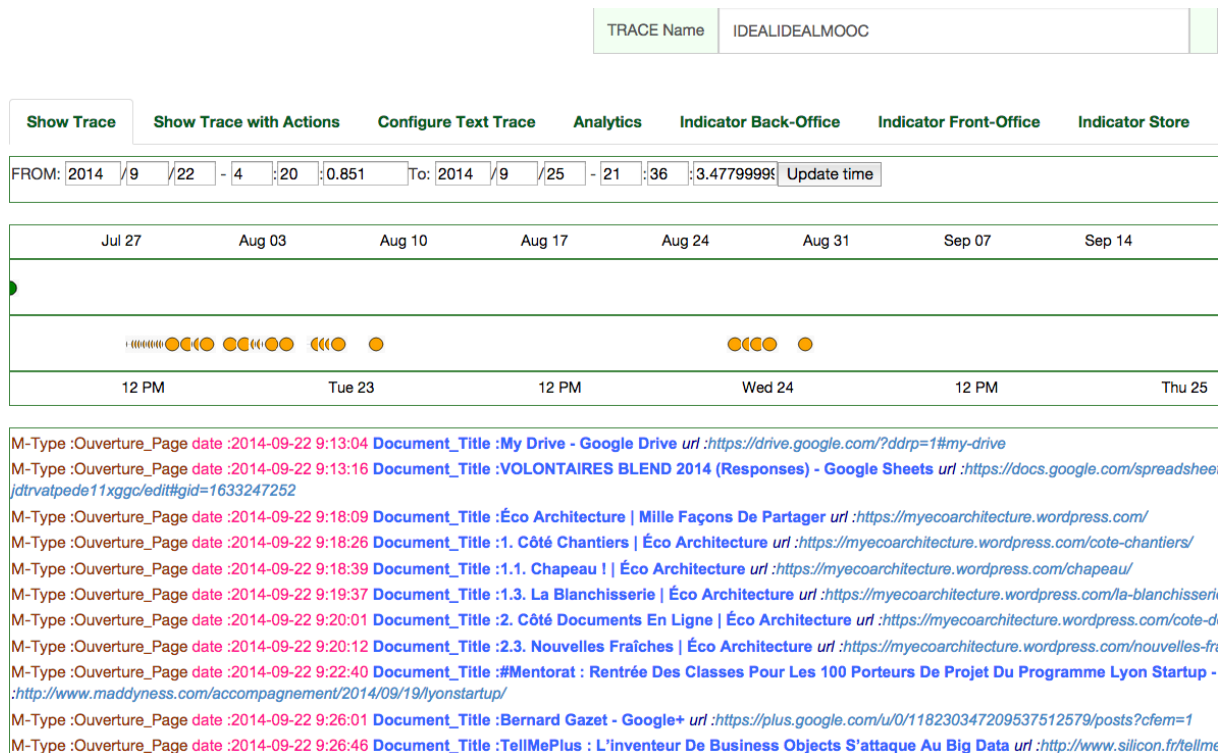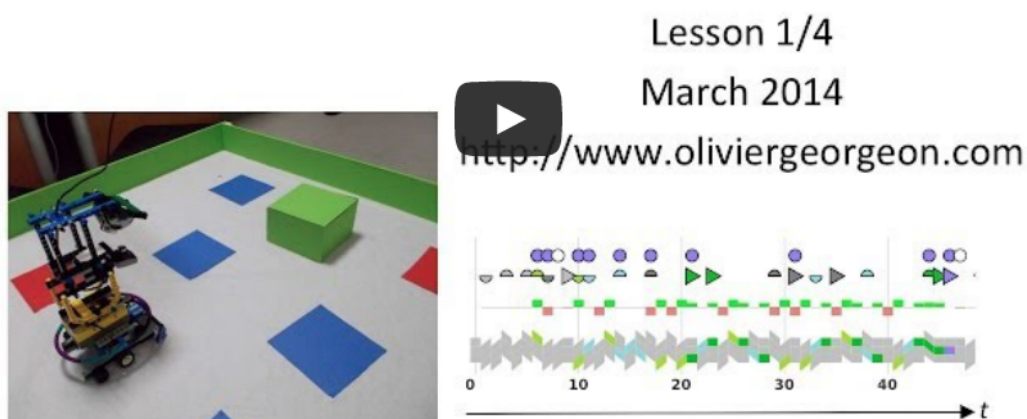[1] http://tbs-platform.org
[2] https://github.com/fderbel/Trace-Me
[3] https://github.com/fderbel/Assistant-Samo-Trace-Me
[4] http://liris.cnrs.fr/ideal/
[5] http://liris.cnrs.fr/ideal/mooc/

TRACE Name IDEALIDEALMOOC

| Show Trace | Show Trace with Actions | Configure Text Trace | Analytics | Indicator Back-Office | Indicator Front-Office | Indicator Store |

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Jul 27   Aug 03   Aug 10   Aug 17   Aug 24   Aug 31   Sep 07   Sep 14

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Figure 1 Main page for the Trace Me module

Lesson 1/4
March 2014
http://www.oliviergeorgeon.com

programming agent and robot in my course on developmental learning. French original version available here.

Figure 2 A lesson on developpemental learning (there is a link to the web page)