

From: Ben Goertzel <[REDACTED]>
To: Jeffrey Epstein <jeevacation@gmail.com>
Subject: Re: Brainfood...
Date: Sat, 02 Apr 2016 14:31:10 +0000

And a fuller project plan...

https://docs.google.com/document/d/1wzpMCQmDIGT4tJXKemXbNx-ticMQCwIs_Z-E4UNmego/edit

On Thu, Mar 31, 2016 at 5:39 PM, Ben Goertzel <[REDACTED]> wrote:

> And a bit more project-planning stuff for our envisioned 3-year
> OpenCog initiative (courtesy of Cassio) ...

>
> On Tue, Mar 29, 2016 at 11:37 PM, Ben Goertzel <[REDACTED]> wrote:

>> Hi Jeffrey,

>>
>> So, here is some food for thought and discussion...

>>
>> We are working on getting OpenCog to control the Hanson Robotics robot
>> heads for embodied (or at least "emheadied"!) natural language
>> dialogue. This should be working in Summer 2016, maybe sooner. We
>> hope to demonstrate this to some extent at AGI-16 which will be in New
>> York this July. To give you some flavor of this work I attach our
>> Hanson Robotics / OpenCog software plan for the next few months (this
>> is work funded by Hanson Robotics).

>>
>> In parallel with that, we have been finally getting some examples of
>> cognitive synergy to work in OpenCog.

>>
>> This paper of ours from AGI-14 ended with a bit of a whimper

>>
>> <http://agi-conf.org/2014/wp-content/uploads/2014/08/harrigan-guiding-agi14.pdf>

>>
>> however we have recently actually gotten this to work. I.e. we have
>> gotten ECAN (neural net type activation spreading) to successfully
>> prune the PLN inference tree. If all goes well we will submit a paper
>> on this to AGI-16 next week. This shows attention allocation and
>> inference working together. Yay!

>>
>> This paper of ours from AGI-15 shows PLN being used to estimate the
>> truth value of a pattern recognized in data by MOSES (our evolutionary
>> program learning algorithm)

>>
>> http://agi-conf.org/2015/wp-content/uploads/2015/07/agi15_goertzel_speculative.pdf

>>
>> It takes about 24 hours to run in the current OpenCog version.
>> Obviously this is not OK but it's a start.

>>
>> Next step is to put these two things together, and use ECAN to help
>> PLN inference pruning on nontrivial examples like the one from the
>> above AGI-15 paper.

>>
>> The attached PPT on some of our biology work contains two parts
>>
>> -- first part is "straightforward" AI-wise but has quite interesting
>> results biology-wise: i.e. we used MOSES to figure out genes that
>> distinguish supercentenarians from healthy 80 year olds
>>
>> -- second part is more interesting AI-wise ... using PLN to generalize
>> from MOSES models
>>
>> Between these papers we see the first concrete examples of "cognitive
>> synergy" in OpenCog. They are a bit "toy" but they are also real and
>> actually work in the codebase now ;)
>>
>> Finally, the other PPT attached shows the plan that Jim Rutt and
>> Cassio and I are aiming to carry out over the next 3 years. I am
>> not sure if you intersected with Jim at SFI or not...
>>
>> <http://www.santafe.edu/about/people/profile/Jim%20Rutt>
>>
>> We are aiming to raise \$6M for 3 years of work, but I imagine we could
>> do it for \$4M over 3 years if we made copious use of inexpensive
>> overseas folks. Jim will put in at least \$500K of the funds himself
>> (his foundation gives out \$500K/year, and he is willing to put at
>> least 1/3 of that into OpenCog, maybe more).
>>
>> The goal of this plan is to make OpenCog-based embodied NLP dialogue
>> work extremely well and hold a conversation demonstrating obvious
>> understanding of itself and its environment and situation. At the
>> core this will require getting cognitive synergy between ECAN, MOSES
>> and PLN to work in the context of visual/auditory perception and NLP
>> dialogue. This will be both a huge AGI advance and an amazing demo
>> that will open pretty much any door we want.
>>
>> Jim Rutt was a good find, not only because he has been donating a bit
>> of \$\$ (about \$150K last year, none to me personally but he has funded
>> Nil Geisweiller and Cassio), but because he bring a management and
>> organization and business sensibility/experience that complements me
>> well. And he knows enough science and CS and has put in enough time
>> to thoroughly understand the OpenCog/CogPrime design...
>>
>> thx!
>> Ben
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>> --
>> Ben Goertzel, PhD
>> <http://goertzel.org>
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> <http://goertzel.org>

>
> "I am Ubik. Before the universe was, I am. I made the suns. I made the
> worlds. I created the lives and the places they inhabit; I move them
> here, I put them there. They go as I say, then do as I tell them. I am
> the word and my name is never spoken, the name which no one knows. I
> am called Ubik, but that is not my name. I am. I shall always be." --
> Ubik

--
Ben Goertzel, PhD
<http://goertzel.org>

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