

**From:** "jeffrey E." <jeevacation@gmail.com>  
**To:** Steven Sinofsky <[REDACTED]>  
**Subject:** Fwd: Brainfood...  
**Date:** Fri, 08 Apr 2016 23:25:54 +0000

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----- Forwarded message -----

**From:** Ben Goertzel <[REDACTED]>  
**Date:** Saturday, 2 April 2016  
**Subject:** Brainfood...  
**To:** Jeffrey Epstein <jeevacation@gmail.com>

And a fuller project plan...

[https://docs.google.com/document/d/1wzpMCQmDIGT4tJXKemXbNx-ticMQCwIs\\_Z-E4UNmego/edit](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](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  
>>  
>>

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