

EVOLUTIONARY TASK FORCE

SUMMARY OF WEEK 23 & 24 (3 APRIL - 16 APRIL 2012)

The past two weeks have been a little slow on news, however there are still advances. With the hinge problem fixed the experiments with the organism controllers have continued, unfortunately due to the speed of simulation they have not yet produced reportable results yet.

On the morphogenesis front there is no progress to report, but Markus is working on integrating the Graz Virtual Embryogenesis approach into the docking procedures.

S/T details:

Subtask-force 1 (Morphogenesis)

Markus is still working on integrating the Virtual Embryogenesis into the evo-cluster framework. The docking approach by Berend was a little unclear on how to use it, but this has been cleared up between Berend and Markus.

Yao has integrated the GRN approach and we are awaiting his results from Robot3D.

Subtask-force 2 (Organism Control)

Experiments are currently running with both the CPG and AHHS controllers. With the fixed hinge movement is already better, however the evolutionary algorithm needs more tuning, which takes time.

Yao is working on integrating the GRN controller as well, which will join the experimentations hopefully soon.

Subtask-force 4 (Simulation)

Vojta has installed a computer dedicated to Symbion Evo/Bio experiments, which runs 24/7. It has 8 cores and a video card. Vojta manages the accounts. If anyone from the project wants to use it, please contact Vojta.

More details and a full collection of our weekly reports on <https://symbion-ec.wikidot.com/>