HBP Highlight





The Neurorobotics Platform



New Virtual lab

A realistic environment for the virtual robots

- ✓ Realistic environments to close the reality gap
- ✓ Wide variety of different scenarios available for more detailed testing of robots
- ✓ Improved object library for more realistic scenarios

Integration of external AI tools

Tensorflow is usable in the NRP!

- ✓ Connect Tensorflow with spiking neural networks
- ✓ Enhance the capacities of your simulated robots
- ✓ As simple as "import tensorflow"

Run massively parallel simulations

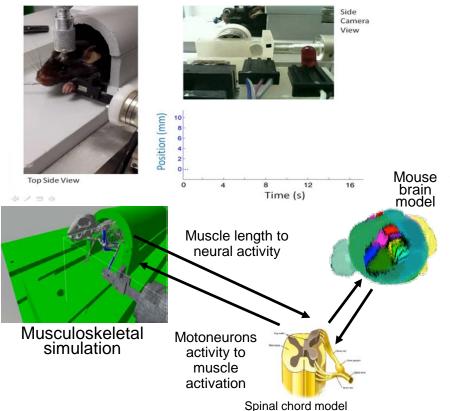
Simulation batches can now be run in parallel

- ✓ Script your simulations in Python
- ✓ Use Jupyter notebooks online
- ✓ Access to large cluster resources

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Study and modelling of rehabilitationinduced cortical remapping after stroke

Learning of a forelimb pulling task, then study of motor task re-training in rodent model after induction of photothrombotic stroke with simultaneous intracranial recording.

Implementation of a musculoskeletal model, spinal cord model and data-driven whole brain model in the NRP

Simulation of the rehabilitation procedure and comparison with real data