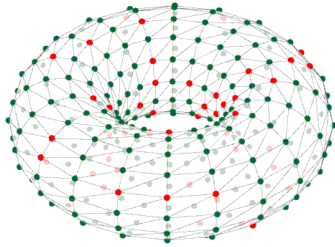


6th SpiNNaker Workshop



Welcome & Overview



SpiNNaker Workshop
September 2016

Sessions and Venues

- Two types of sessions:
 - Presentations (some optional!)
 - Lab work (with lab books)
- Three venues:
 - **Collab 1** (here) for labs and some presentations
 - **Atlas-1** (30m away) for some presentations
 - Area outside this room for lunch/drinks breaks
- Don't leave valuables here overnight!

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Breakdown of each day

- Sessions:
 - Start at 9am – promptly!
 - Run to 5pm, except the last day (1pm)
- Breaks:
 - Drinks mid-morning and at 3pm daily (half hour)
 - Lunch at 12pm daily (one hour)
- Fire alarm test on Wednesday at 1pm

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WI-FI Access

- *eduroam* is available as normal around the building
- UoM guest accounts available if you need one
 - Please ask!

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Day 1 - Monday 5th

| Time | Session | Presenter |
|-------|---|-----------|
| 09:00 | Registration | |
| 10:00 | Workshop Introduction & logistics | SD |
| 10:15 | SpiNNaker Hardware & Tools Overview | SD |
| 11:00 | Introductory Lab | AGR |
| 12:00 | Lunch | |
| 13:00 | SpiNNaker architecture and chip resources | ST |
| 14:00 | Running PyNN simulations on SpiNNaker | AGR |
| 15:00 | Coffee | |
| 15:30 | Lab time | |
| 16:30 | Close | |

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Day 2 – Tuesday 6th

| Time | Session | Presenter |
|-------|--|-----------|
| 09:00 | SpiNNaker system software (SARK) | ST |
| 10:00 | Coffee (earlier than usual) | |
| 10:30 | SpiNNaker API + event driven simulation | LAP |
| 11:30 | Writing Applications on SpiNNaker - Overview | SD |
| 12:00 | Lunch | |
| 13:00 | Introduction to Graph Front End (GFE) | ABS (AGR) |
| 14:00 | ybug and gdb walk-through | ST |
| 15:00 | Coffee | |
| 15:30 | Lab time | |
| 16:30 | Close | |

6

Day 3 – Wednesday 7th

| Time | Session | Presenter |
|-------|--|-----------|
| 09:00 | Simple data I/O and visualisation | ABS (SD) |
| 10:00 | Lab time (coffee at 10:30) | |
| 11:00 | Maths & fixed point libraries | MH |
| 12:00 | Lunch | |
| 13:00 | Adding new neuron models | AGR/MH |
| 14:00 | Connecting SpiNNaker to external devices | ABS (DRL) |
| 14:30 | Lab time (coffee at 15:00) | |
| 16:30 | Close | |

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Day 4 – Thursday 8th

| Time | Session | Presenter |
|-------|--|-----------|
| 09:00 | Adding new models of synaptic plasticity | JK |
| 09:45 | Graph Front End – further details | ABS (AGR) |
| 10:30 | Coffee | |
| 11:00 | Lab time | |
| 12:00 | Lunch | |
| 13:00 | Using big SpiNNaker machines remotely: The HBP portal | AGR |
| 13:30 | Lab time (coffee at 15:00) | |
| 15:30 | Demonstration of NENGO language and environment | TBC |
| 16:30 | Close | |

8

| Time | Session | Presenter |
|-------|-----------------|-----------|
| 09:00 | Lab time | |
| 10:30 | Coffee | |
| 11:00 | Lab time | |
| 12:00 | Lunch and close | |

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- 4-node boards can be loaned out
 - But supply is limited
- Please send an email with your project details to:

simon.davidson@manchester.ac.uk
- Steve Temple will allocate and log board loans
 - Please don't just take one away....

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- We'd appreciate some feedback on...
 - Your workshop experience
 - SpiNNaker hardware
 - SpiNNaker software
- I'll email you in the next few weeks
- We hope that you enjoy the workshop!

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